

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

SEE SHEETS 2 AND 3
FOR INDEX OF SHEETS

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

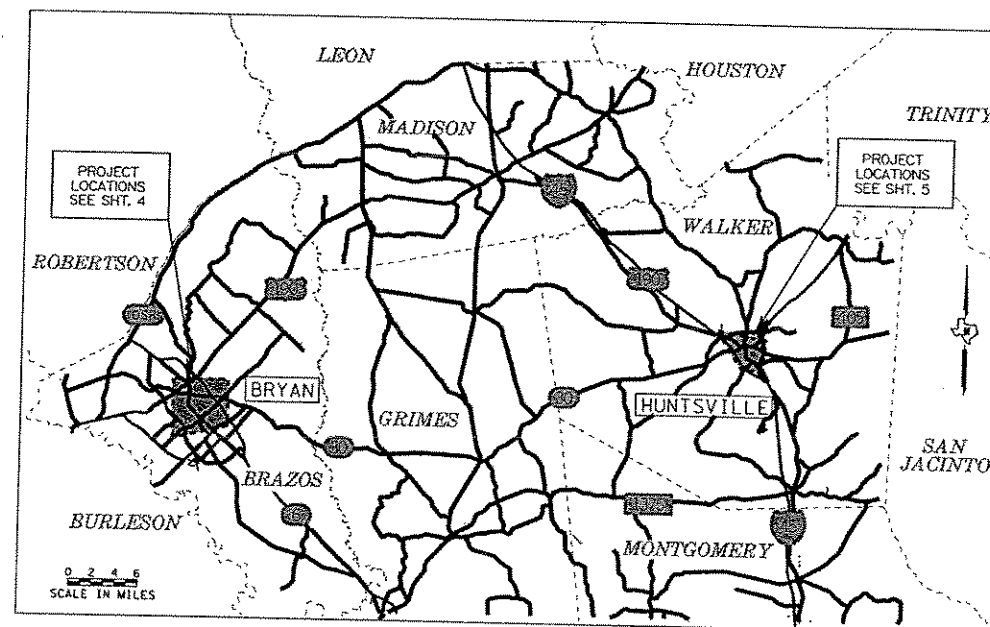
PROJECT NUMBER: STP 2008 (574)

BRYAN DISTRICT

TOTAL LENGTH OF PROJECT = 0.001 MILES

LIMITS: AT VARIOUS LOCATIONS IN THE CITY OF HUNTSVILLE, etc.

FOR THE CONSTRUCTION OF MISCELLANEOUS WORK CONSISTING
OF CONSTRUCTING ADA IMPROVEMENTS



FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6	STP 2008(574)	VA
STATE	DISTRICT	COUNTY
TEXAS	BRY	WALKER, etc.
CONTROL	SECTION	JOB
0917	27	035, etc.
		SHEET NO.
		1

DESIGN SPEED = N/A

FINAL PLANS

CONTRACTOR:

DATE CONTRACTOR BEGAN WORK:

DATE WORK WAS COMPLETED & ACCEPTED:

FINAL CONTRACT COST: \$

REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH
BC (1)-07 THRU BC (12)-07 AND THE "TEXAS
MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES",
2006 MANUAL.

TDLR INSPECTION REQUIRED

TDLR NO. _____



TEXAS DEPARTMENT OF TRANSPORTATION

SUBMITTED
FOR LETTING:

Robert L. Puckett, PE
ENGINEER

APPROVED
FOR LETTING:

DIRECTOR, TRAFFIC OPERATIONS DIVISION

RECOMMENDED
FOR LETTING:

[Signature]
DIRECTOR OF TRANSPORTATION
PLANNING AND DEVELOPMENT

RECOMMENDED
FOR LETTING:

[Signature]
DISTRICT ENGINEER

APPROVED
FOR LETTING:

[Signature]
FOR DIRECTOR, DESIGN DIVISION

NO EXCEPTIONS
NO EQUATIONS
NO RAILROAD CROSSINGS

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION,
JUNE 1, 2004 AND SPECIFICATION ITEMS LISTED AS FOLLOWS, SHALL
GOVERN ON THIS PROJECT:

REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION
CONTRACTS (FORM FHWA 1273, MARCH, 1994).

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0917-27-035

WALKER

CSJ 0917-27-035, etc. FILENAME: T:\BRY\Bry_District_Design\ADA 0917-27-035\BRY Title Sheet.dgn

SHEET

GENERAL

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2 - 3	SUPPLEMENTAL INDEX OF SHEETS
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6, 6A-6C	GENERAL NOTES
7	ESTIMATE & QUANTITY SHEET
8	SUMMARY OF QUANTITIES

TRAFFIC CONTROL PLANS

* STANDARDS

9 - 20	*BC(1)-07 THRU BC(12)-07
21	*TRAFFIC CONTROL PLAN TCP (1-2)-98
22	*TRAFFIC CONTROL PLAN TCP (2-1)-98
23	*TRAFFIC CONTROL PLAN TCP (2-4)-03
24	*TRAFFIC CONTROL PLAN TYPICAL DETAILS WZ (TD)-03

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25	SAMPLE INTERSECTION
26	ROADWAY TRANSITION DETAIL
27	(HUNTSVILLE) SH-75 AT AIRPORT
28	(HUNTSVILLE) SH-75 AT KEVIN WILLIAMS
29	(HUNTSVILLE) SH-75 AT FM 2821
30	(HUNTSVILLE) SH-75 AT YOUNG
31	(HUNTSVILLE) SH-75 AT PAUL KNOX
32	(HUNTSVILLE) SH-75 AT MIZE
33	(HUNTSVILLE) SH-75 AT HEATON
34	(HUNTSVILLE) SH-75 AT MANGOLIA WAY
35	(HUNTSVILLE) SH-75 AT EASTHAM LN.
36	(HUNTSVILLE) SH-75 AT BRUNCH AVE
37	(HUNTSVILLE) SH-75 AT GOSPEL HILL RD.
38	(HUNTSVILLE) SH-75 AT BUSH DR.
39	(HUNTSVILLE) SH-75 AT OLD MADISONVILLE RD.
40	(HUNTSVILLE) SH-75 AT PLEASANT ST.
41	(HUNTSVILLE) SH-75 AT PINE SHADOWS DR./10TH ST.
42	(HUNTSVILLE) SH-75 AT 12TH
43	(HUNTSVILLE) SH-75 AT 13TH
44	(HUNTSVILLE) SH-75 AT 14TH
45	(HUNTSVILLE) SH-75 AT 15TH
46	(HUNTSVILLE) SH-75 AT 16TH
47	(HUNTSVILLE) SH-75 AT 17TH
48	(HUNTSVILLE) SH-75 AT 19TH
49	(HUNTSVILLE) SH-75 AT 20TH/BOWERS BLVD.
50	(HUNTSVILLE) SH-75 AT 20TH INTERSECTION DETAIL
51	(HUNTSVILLE) SH-75 AT 21ST
52	(HUNTSVILLE) SH-75 AT 22ND
53	(HUNTSVILLE) SH-75 AT JOSEY ST.
54	(HUNTSVILLE) SH-75 AT LAKE RD./AVENUE J
55	(HUNTSVILLE) SH-75 AT AVENUE I
56	(HUNTSVILLE) SH-75 AT MONTGOMERY RD (FM 1374)
57	(HUNTSVILLE) SH-75 AT PALM ST.
58	(HUNTSVILLE) SH-75 AT EL TORO RD.
59	(HUNTSVILLE) SH-75 AT OLD HOUSTON RD.
60	(HUNTSVILLE) SH-75 AT SYCAMORE AVE.
61	(HUNTSVILLE) SH-75 AT ANGLIER RD.
62	(HUNTSVILLE) SH-75 AT OLD PHELPS RD.
63	(HUNTSVILLE) SH-75 AT SH-19 ENTRANCE
64	(HUNTSVILLE) SH-75 AT SH-19 EXIT
65	(HUNTSVILLE) SH-30 AT WEST HILL PARK CIR.
66	(HUNTSVILLE) SH-30 AT VETERANS MEMORIAL PWY.
67	(HUNTSVILLE) US-190 AT HICKORY DR.
68	(HUNTSVILLE) US-190 AT PEAR DR.
69	(HUNTSVILLE) US-190 AT OAK DR.
70	(HUNTSVILLE) US-190 AT PECAN DR.
71	(HUNTSVILLE) US-190 AT NORMAL PARK
72	(HUNTSVILLE) US-190 AT RAY BLACK DR.
73	(HUNTSVILLE) US-190 AT SH-75 (AVE. Q)
74	(HUNTSVILLE) US-190 AT AVENUE O (SOUTH)
75	(HUNTSVILLE) US-190 AT AVENUE O (NORTH)
76	(HUNTSVILLE) US-190 AT AVENUE N
77	(HUNTSVILLE) US-190 AT AVENUE M
78	(HUNTSVILLE) US-190 AT SAM HOUSTON AVE.
79	(HUNTSVILLE) US-190 AT SAM HOUSTON AVE. INTERSECTION DETAIL
80	(HUNTSVILLE) US-190 AT UNIVERSITY AVE.
81	(HUNTSVILLE) US-190 AT UNIVERSITY AVE. INTERSECTION DETAIL

SHEET

ROADWAY SHEETS (CONTINUED)

82	(HUNTSVILLE) US-190 AT AVE. J
83	(HUNTSVILLE) US-190 AT AVE. H
84	(HUNTSVILLE) US-190 AT AVE. G
85	(HUNTSVILLE) US-190 AT MLK BLVD. (AVENUE F)
86	(HUNTSVILLE) US-190 AT AVE. E
87	(HUNTSVILLE) US-190 AT SYCAMORE AVE.
88	(HUNTSVILLE) US-190 AT AVE. C
89	(HUNTSVILLE) US-190 AT AVE. B/13TH ST.
90	(HUNTSVILLE) US-190 AT ELM AVE
91	(HUNTSVILLE) US-190 AT GOODRICH DR.
92	(HUNTSVILLE) FM 247 AT 10TH ST.
93	(HUNTSVILLE) FM 1374 AT ELKS DR.
94	(HUNTSVILLE) FM 1374 AT IH-45 (SOUTHBOUND)
95	(HUNTSVILLE) FM 1374 AT IH-45 (NORTHBOUND)
96	(BRYAN) FM 158 AT BOIS D'ARC
97	(BRYAN) FM 158 AT SANDY POINT
98	(BRYAN) FM 158 AT TATUM/SANDY POINT
99	(BRYAN) FM 158 AT SHORT
100	(BRYAN) FM 158 AT BRAZOS
101	(BRYAN) FM 158 AT ALAMO
102	(BRYAN) FM 158 AT REED
103	(BRYAN) FM 158 AT BAYLOR
104	(BRYAN) FM 158 AT CONGRESS
105	(BRYAN) FM 158 AT RANDOLPH
106	(BRYAN) FM 158 AT LOGAN
107	(BRYAN) FM 158 AT STERLING
108	(BRYAN) FM 158 AT PARKER
109	(BRYAN) FM 158 AT TABOR
110	(BRYAN) FM 158 AT REGENT
111	(BRYAN) FM 158 AT N. WASHINGTON
112	(BRYAN) FM 158 AT HOUSTON
113	(BRYAN) FM 158 AT PRESTON
114	(BRYAN) FM 158 AT N. POLK
115	(BRYAN) FM 158 AT PIERCE
116	(BRYAN) FM 158 AT ROBERTSON/EAST 25TH ST.
117	(BRYAN) FM 158 AT BAKER (SOUTH)
118	(BRYAN) FM 158 AT BAKER (NORTH)
119	(BRYAN) FM 158 (EAST) AT HASWELL
120	(BRYAN) FM 158 (WEST) AT N. COULTER (WEST)
121	(BRYAN) FM 158 (EAST) AT MAY
122	(BRYAN) FM 158 (EAST) AT JUNE
123	(BRYAN) FM 158 (EAST) AT N. COULTER (EAST)
124	(BRYAN) FM 158 (WEST) AT TALIAFERRO
125	(BRYAN) FM 158 AT ACADEMY
126	(BRYAN) FM 158 AT CRENSHAW
127	(BRYAN) FM 158 (WEST) AT E. 24TH ST.
128	(BRYAN) FM 158 AT FREEMAN
129	(BRYAN) FM 158 AT EMMETT
130	(BRYAN) FM 158 AT MESA
131	(BRYAN) FM 158 AT JULY
132	(BRYAN) FM 158 AT DILLON
133	(BRYAN) FM 158 AT VILLA MARIA
134	(BRYAN) FM 158 AT VILLA MARIA INTERSECTION DETAIL
135	(BRYAN) FM 158 AT SAN ANTONIO
136	(BRYAN) FM 158 AT LONG
137	(BRYAN) FM 158 AT BRIARGATE/PRAIRIE
138	(BRYAN) BS-6 AT OLD HEARNE
139	(BRYAN) BS-6 AT 15TH ST.
140	(BRYAN) BS-6 AT BLOSSOM
141	(BRYAN) BS-6 AT N. WASHINGTON
142	(BRYAN) BS-6 AT 17TH ST.
143	(BRYAN) BS-6 AT 18TH ST.
144	(BRYAN) BS-6 AT MLK JR.
145	(BRYAN) BS-6 AT 20TH ST.
146	(BRYAN) BS-6 AT 20TH ST. INTERSECTION DETAIL
147	(BRYAN) BS-6 AT 21ST ST.
148	(BRYAN) BS-6 AT 21ST ST. INTERSECTION DETAIL
149	(BRYAN) BS-6 AT 22ND ST.
150	(BRYAN) BS-6 AT 23RD ST.
151	(BRYAN) BS-6 AT 24TH ST.
152	(BRYAN) BS-6 AT 26TH ST.
153	(BRYAN) BS-6 AT 27TH ST.
154	(BRYAN) BS-6 AT 28TH ST.

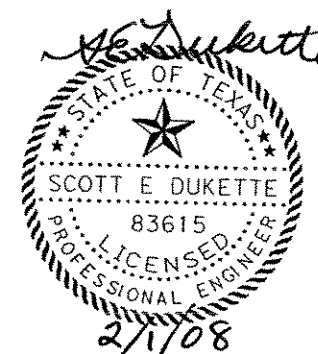
THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE BY (•) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

Scott E. Dukette, PE 2/1/08 DATE

SHEET

ROADWAY SHEETS (CONTINUED)

155	(BRYAN) BS-6 AT 29TH ST.
156	(BRYAN) BS-6 AT 30TH ST.
157	(BRYAN) BS-6 AT 31ST ST./HOUSTON
158	(BRYAN) BS-6 AT 31ST ST.
159	(BRYAN) BS-6 AT 32ND ST. (WEST)
160	(BRYAN) BS-6 AT PAUL/BITTLE
161	(BRYAN) BS-6 AT 32ND ST. (EAST)
162	(BRYAN) BS-6 AT 33RD ST.
163	(BRYAN) BS-6 AT HOMESTEAD (WEST)
164	(BRYAN) BS-6 AT HOMESTEAD (EAST)
165	(BRYAN) BS-6 AT PEASE
166	(BRYAN) BS-6 AT COLLEGE
167	(BRYAN) BS-6 AT DODGE
168	(BRYAN) BS-6 AT BETHEL
169	(BRYAN) BS-6 AT SOUTHERN
170	(BRYAN) BS-6 AT GLENWOOD
171	(BRYAN) BS-6 AT WAYSIDE
172	(BRYAN) BS-6 AT DUNCAN
173	(BRYAN) BS-6 AT AVONDALE
174	(BRYAN) BS-6 AT CARSON
175	(BRYAN) BS-6 AT HOWARD
176	(BRYAN) BS-6 AT LAKE
177	(BRYAN) BS-6 AT POST OFFICE/TWIN BLVD.
178	(BRYAN) BS-6 AT LAWRENCE
179	(BRYAN) BS-6 AT MITCHELL
180	(BRYAN) BS-6 AT OAK
181	(BRYAN) BS-6 AT DELLWOOD
182	(BRYAN) BS-6 AT VILLA MARIA (FM 1179)
183	(BRYAN) BS-6 AT ELM
184	(BRYAN) BS-6 AT MEADOW
185	(BRYAN) BS-6 AT SULPHUR SPRINGS
186	(BRYAN) BS-6 AT BROOK
187	(BRYAN) BS-6 AT MARY LAKE
188	(BRYAN) BS-6 AT DUNN
189	(BRYAN) BS-6 AT EAST NORTH
190	(BRYAN) BS-6 AT BROADMOOR/EAST NORTH
191	(BRYAN) BS-6 AT ENFIELD
192	(BRYAN) BS-6 AT COLLEGE VIEW
193	(BRYAN) BS-6 AT GARDEN ACRES
194	(BRYAN) BS-6 AT BROOKSIDE/GARDEN ACRES
195	(BRYAN) BS-6 AT EDMORE
196	(BRYAN) BS-6 AT HENSEL/INWOOD
197	(BRYAN) BS-6 AT HENSEL
198	(BRYAN) SH-308 AT WATSON
199	(BRYAN) SH-308 AT PLEASANT
200	(BRYAN) SH-308 AT ROYAL
201	(BRYAN) SH-308 AT NORTH
202	(BRYAN) SH-308 AT BROOKSIDE
203	(BRYAN) FM 1179 AT GREEN VALLEY
204	(BRYAN) FM 1179 AT WILDFLOWER
205	(BRYAN) FM 1179 AT SH-6 (NORTHBOUND)
206	(BRYAN) FM 1179 AT SH-6 (SOUTHBOUND)
207	(BRYAN) FM 1179 AT KENT



klotz associates

ADA CURB RAMP PROGRAM
SUPPLEMENTAL
INDEX OF SHEETS

DIST.	ALJ	FED. RD. DIST. NO.	STATE	PROJECT NO.	SECTION NO.
CK. DIST.	SAS	6	TEXAS		VARIES
DIST.	JEN				
CK. DIST.	MS/SD				
DIST.	TRC				
CK. DIST.					
DIST.					
CK. DIST.					

SHEET ROADWAY SHEETS (CONTINUED)

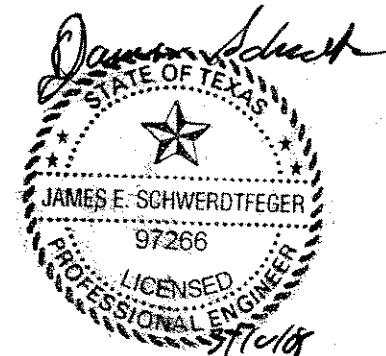
208	(BRYAN) FM 1179 AT BROADMOOR
209	(BRYAN) FM 1179 AT MEMORIAL
210	(BRYAN) FM 1179 AT VILLA MARIA
211	(BRYAN) FM 1179 AT CARTER CREEK
212	(BRYAN) FM 1179 AT PARKWAY
213	(BRYAN) FM 1179 AT WAYSIDE
214	(BRYAN) FM 1179 AT MALONEY
215	(BRYAN) FM 1179 AT TIMBER
216	(BRYAN) FM 1179 AT CAVITT
217	(BRYAN) FM 1179 AT CRANE
218	(BRYAN) FM 1179 AT SOUTH COLLEGE
219	(BRYAN) FM 1179 AT LAKEVIEW
220	(BRYAN) FM 1179 AT GREEN
221	(BRYAN) FM 1179 AT FORESTWOOD
222	(BRYAN) FM 1179 AT JAGUAR
223	(BRYAN) FM 1179 AT HIDDEN HOLLOW
224	(BRYAN) FM 1179 AT WESTWOOD MAIN
225	(BRYAN) FM 1179 AT SHIREWOOD
226	(BRYAN) FM 1179 AT LIS
227	(BRYAN) SH-6 (SOUTHBOUND) AT OAK HILL
228	PEDESTRIAN SIGNALS
229	*CONCRETE CURB AND CURB AND CUTTER CCCC-01
230	*CURB INLET TYPE C AND EXTENSION TYPE E (5'-0" INLET) IL-C
231- 234	*PEDESTRIAN FACILITIES PED-05
235	RETAINING WALL AND SIDE CURB DETAIL
236	*CONCRETE BLOCK RETAINING WALL RW(CB)
237	PEDESTRIAN RAMP AND LANDING BASE DETAILS (OMITTED)
238	SWITCHBACK DETAIL (OMITTED)
239- 241	*PEDESTRIAN HANDRAIL DETAILS PRD-06
242	*SIGN MOUNTING DETAILS GENERAL NOTES AND DETAILS SMD(GEN)-02
243- 245	*SIGN MOUNTING DETAILS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-1-3)-02
246	*TYPICAL STANDARD PAVEMENT MARKINGS PM(1)-03
247	*PAVEMENT MARKINGS FOR TWO-WAY LEFT TURN LANES PM (4)-03
248	*PM (6)-01
249	*ELECTRICAL DETAILS - CONDUIT ED(1)-03
250	*ELECTRICAL DETAILS - CONDUIT ED(2)-03
251	*ELECTRICAL DETAILS - GROUND BOXES ED(3)-03 MODIFIED
252	ARMOR CURB SLOT WITH CONCRETE FOUNDATION
253- 254	SIDEWALK BRIDGE AT ARMOR CURB SLOT

ENVIRONMENTAL ISSUES

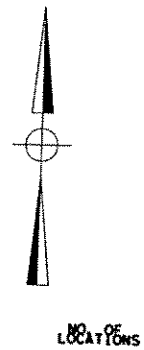
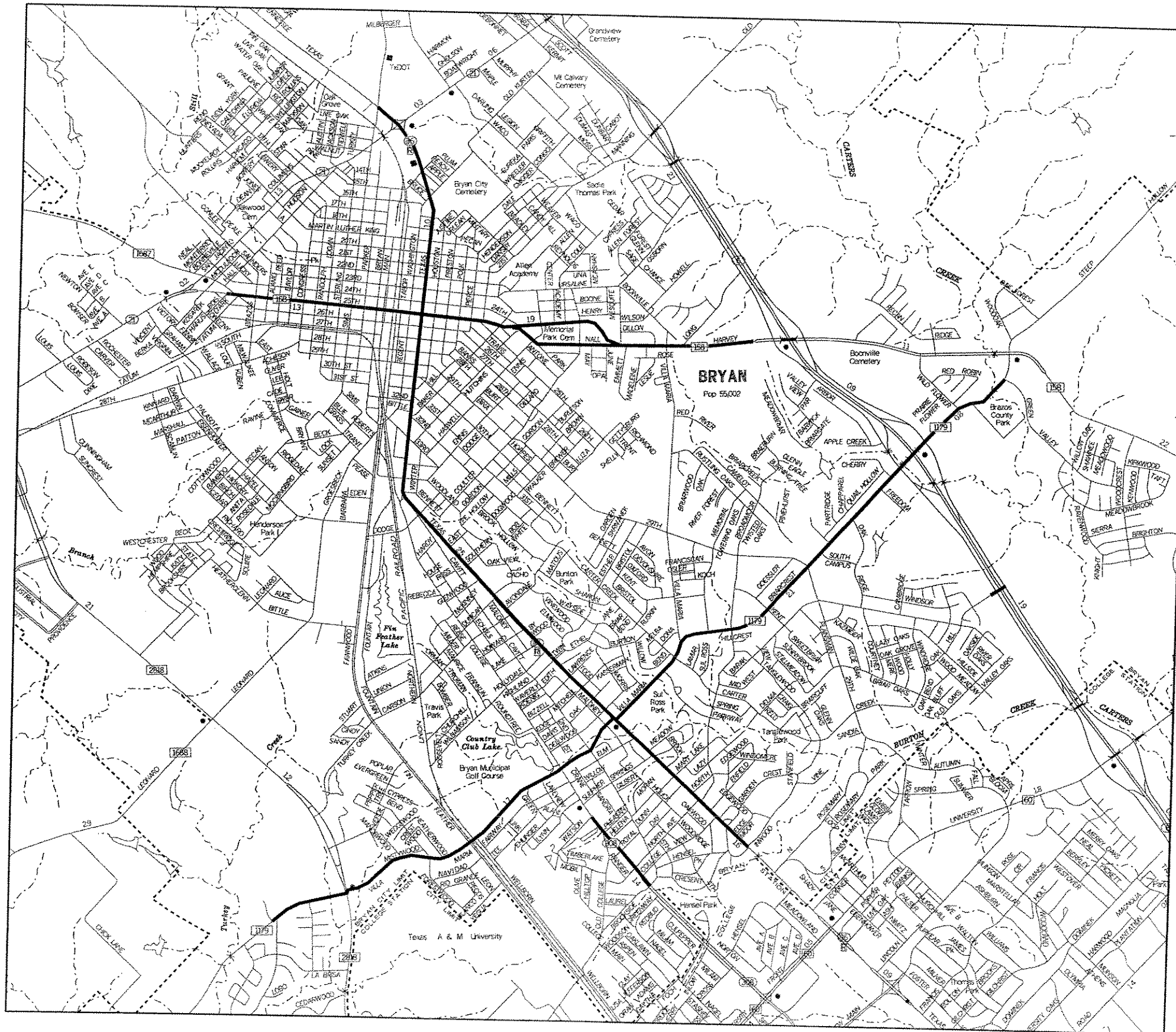
255	*TEMPORARY EROSION SEDIMENT AND WATER POLLUTION CONTROL EC(1)-93
256- 257	TEMPORARY EROSION CONTROL DEVICES
258	SWPPP EXAMPLE INTERSECTION
259	EPIC SHEET

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE BY (•) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

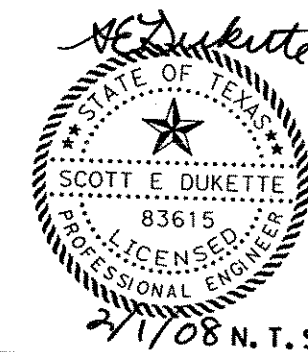
James E. Schwerdtfeger PE 3/10/08 DATE



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H.R. Gray For Construction Success		klotz associates	
ADA CURB RAMP PROGRAM SUPPLEMENTAL INDEX OF SHEETS			
DRI: AJS CK DRI: SAS DRI: JEM CK DRI: MS/SD TR: CK TR:	FES: RD DIV. NO.: STATE: 6 TEXAS COUNTY: BRY PROJECT NO.: CONTROL NO.: 0917 SECTION NO.: 27 JOB NO.: 035, ETC. SHEET NO.: 5	HIGHWAY NO.: VARIES	



PROJ REF NO	HIGHWAY	COUNTY	LENGTH IN MI	LIMITS OF PROJECT	# OF INTERSECTIONS
	FM-158	BRAZOS		FR: BOIS D' ARC TO: BRIARGATE PRAIRIE	41
	BS-6	BRAZOS		FR: OLD HEARNE TO: HENSEL	58
	SH-308	BRAZOS		FR: WATSON TO: BROOKSIDE	5
	FM-1179	BRAZOS		FR: GREEN VALLEY TO: LIS	24
	SH-6	BRAZOS		AT: OAK HILL	1
TOTAL					129



ADA CURB RAMP PROGRAM
BRYAN, TEXAS
PROJECT LOCATION MAP

DR: AJS	STATE	PROJECT NO.	ROUTE NO.
CK: DM: SAS	6 TEXAS		VARIES
DR: JEM	COUNTY	SECTION NO.	JOB NO.
CK: DM: MS/SD	BRY	WALKER, ETC.	0917 27 035, ETC.
TR:			
CK: TR:			

Project Number: STP 2008(574)

Sheet 6

County: Walker, etc

Control: 0917-27-035, etc.

Highway: VA

GENERAL NOTES:

BASIS OF ESTIMATE

ITEM	DESCRIPTION	COURSE	RATE	AMOUNT	QUANTITY
168	Vegetative Watering		12 GAL/ SY	1858 SY	22 MG
340	Hot mix (TY C) PG 70-22	3.5" AVG	400 LB/ SY	750 SY	150 TON

* Construct curb ramps on SH 75 at Avenue I and Avenue J in Huntsville as the first priority.

Environmental commitments are listed on the EPIC sheet of the plans. Absolute adherence to those commitments is required.

Wiring will be done in accordance with the National Electric Code (NEC).

Overhead and underground utilities exist in the vicinity of the project. The exact location of underground utilities is not known. Contact the Texas Excavation Safety Systems (TESS) or DIG TESS at 1-800-344-8377 or the area utility companies for exact locations at least 48 hours before commencing any work that might affect present utilities.

The following list contains the telephone numbers of utility locators for some of the utilities that may be encountered. Locate all utilities before construction.

<u>Bryan</u>	
City of Bryan Water Department	979-209-5929
BTU	979-821-5787
Atmos Energy	979-774-2506
Suddenlink	979-846-2415
Verizon	979-821-4300

The City of Bryan Water Department to adjust valves, meters, etc. in ramp areas, if necessary, with 7 days of notification.

BTU to adjust guy wires, minor poles, etc in ramp areas, if necessary, with 7 days of notification.

Contact the TxDOT District to determine/verify the location of loop detectors, conduit, ground-boxes, etc. prior to beginning work. Replace or repair any signal equipment damaged by the construction operations as directed. The department reserves the right to perform the repair or replacement work and bill the Contractor for the cost of this work.

Project Number: STP 2008(574)

Sheet 6

County: Walker, etc

Control: 0917-27-035, etc.

Highway: VA

Sweep and remove all litter, construction debris and surplus material on the right of way within the project limits to keep the jobsite neat at all times. Keep roadways and sidewalks free of sediment. Consider subsidiary to pertinent Items.

The Contractor will not be required to provide a cylinder breaker for concrete testing.

ITEM 5 "CONTROL OF THE WORK"

Place construction stakes so they do not interfere with routine maintenance operations. Improperly placed stakes that are disturbed will be replaced at Contractor's expense.

ITEM 7 "LEGAL RELATIONS AND RESPONSIBILITIES"

Prove to the Engineer's satisfaction that employees operating equipment on the travel lanes have a valid State Driver's License.

ITEM 8 "PROSECUTION AND PROGRESS"

By noon of each Wednesday, provide the Engineer a written outline of the daily work schedule for the following week. Include in the outline the times and places for proposed traffic control changes, lane and shoulder closures, and moving operations or other operations that affect traffic on the roadway.

Working days estimated for this project include curing, testing and performance periods. Time will not be suspended for curing, testing or performance periods, except no time will be charged during testing and performance periods which occur after the final inspection as described in Article 5.8.B.2 of the standard specifications.

Working days will be computed and charged in accordance with Article 8.3.A.4 Standard Workweek.

ITEM 104 "REMOVING CONCRETE"

All non-salvaged material will become the property of the Contractor for proper removal and disposal. No explosives will be allowed.

ITEM 162 "SODDING FOR EROSION CONTROL"

Furnish and place Bermuda sod.

Project Number: STP 2008(574)

Sheet 6A

County: Walker, etc

Control: 0917-27-035, etc.

Highway: VA

ITEM 168 "VEGETATIVE WATERING"

Provide vegetative watering at a rate of 1.5 gallons per square yard of sod per cycle.
Provide 8 cycles of watering with no more than one cycle per week unless otherwise directed.

ITEM 340 "DENSE GRADED HOT MIX ASPHALT (METHOD)"

General Note for Hot Mix Items:

Hamburg Wheel Test Requirements			
High-Temperature Binder Grade	Test Method	Laboratory Mixture Design or Trial Batch	Production and Placement Test ¹
		Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F	Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F
PG 64 or lower	Tex-242-F	7,000	7,000
PG 70	Tex-242-F	15,000	15,000
PG 76 or higher	Tex-242-F	20,000	20,000

1. The Engineer may accept if no more than 1 of the 5 most recent Hamburg Wheel tests is below the specified number of passes and the failing test is no more than 2000 passes below the specified number of passes.

Target laboratory molded density is 97%.

Add one (1.0) percent hydrated lime, commercial, or lime slurry lime, based on the total aggregate weight, as mix enhancer for all mixture types. Provide hydrated lime or commercial lime slurry in accordance with DMS-6350, "Lime and Lime Slurry". Add hydrated lime or commercial lime slurry in accordance with Item 301.4.B.

Use a minimum PG 58 binder as the tack coat. Apply it through a distributor spray bar in accordance with Article 316.3(A) Distributor.

ITEM 423 "RETAINING WALLS"

For Concrete Block walls, provide a system from one of the following approved suppliers:

KEYSTONE RETAINING WALLS
JEWELL CONCRETE PRODUCTS,
INC
P.O. BOX 7115
WACO, TEXAS 78716
(800) 792-3216

ALLAN BLOCK RETAINING
WALLS
EAGLE CONCRETE PRODUCTS
6415 HARDY STREET
HOUSTON, TEXAS 77022
(800) 933-5509

General Notes

Sheet C

Project Number: STP 2008(574)

Sheet 6A

County: Walker, etc

Control: 0917-27-035, etc.

Highway: VA

ANCHOR WALL SYSTEM
PAVESTONE COMPANY
P.O. BOX 1868
GRAPEVINE, TEXAS 76051
(817) 481-5802

VERSA-LOC RETAINING WALLS
PALESTINE CONCRETE
2202 CHOCKHILL RD
DALLAS, TEXAS 75212
(972) 263-5077

AMASTONE EARTH RETENTION
SYSTEMS
BLOCKS AND WALLS, INC.
P.O. BOX 1157
DEL VALLE, TEXAS 78617
(512) 389-0270

PYRAMID BLOCKWALLS
THE REINFORCED EARTH
COMPANY
1331 AIRPORT FREEWAY, SUITE
302
EULESS, TEXAS 76040-4150
(817) 283-5503

STONEWALL RETAINING
WALLS
FEATHERLITE BUILDING
PRODUCTS
P.O. BOX 1029
AUSTIN, TEXAS 78767
(512) 472-2424

MESA RETAINING WALL
SYSTEM
TENSAR EARTH TECHNOLOGIES,
INC.
5775-B GLENRIDGE DRIVE,
SUITE 450
ATLANTA, GEORGIA 30328
(404) 250-1290

T-BLOCK RETAINING WALL
SYSTEM
T&B STRUCTURAL SYSTEMS
637 W. HURST BLVD.
HURST, TEXAS 76053
(817) 280-9858

OMEGA WALLS
SHAW TECHNOLOGIES, INC.
P.O. BOX 654
COLLEYVILLE, TEXAS 76034
(817) 427-0997

ROCKWOOD RETAINING
WALLS
DEL NORTE MASONRY
PRODUCTS
4560 RIPLEY DRIVE
EL PASO, TEXAS 79922
(915) 535-2375

VENTURE RETAINING WALLS
VENTURE RETAINING WALL
SYSTEMS
1333 WEST 120TH AVE., SUITE
312
DENVER, COLORADO 80234
(303) 254-8846

CORNERSTONE RETAINING
WALLS
FEATHERLITE BUILDING
PRODUCTS
P.O. Box 425
ROUND ROCK, TEXAS 78680
(512) 255-2573

General Notes

Sheet D

Project Number: STP 2008(574)

Sheet **6B**

County: Walker, etc

Control: 0917-27-035, etc.

Highway: VA

Fasten the top block to the wall with a construction adhesive as recommended by the manufacturer or as approved.

Supply concrete blocks of the surface texture and color as directed, and submit a sample block for approval before work begins.

ITEM 432 "RIPRAP"

Provide Class B concrete for riprap.

ITEM 502 "BARRICADES, SIGNS AND TRAFFIC HANDLING"

The traffic control plan shall be governed by PART VI of the Texas Manual of Uniform Traffic Control Devices (TMUTCD), the BC standard sheets, the traffic control standard sheets, and as directed by the Engineer.

Additional signing and/or barricades shown in the TMUTCD, BC and TCP standards may be required by the Engineer to insure the safety of the traveling public.

Warning reflectors or approved substitutes may be mounted on plastic drums in place of Type C steady burn warning lights if approved by the Engineer.

Provide construction fencing as approved by the Engineer at all work locations to protect pedestrian or bicycle traffic. This material and its placement will be considered subsidiary to Item 502.

Incorporate and maintain a 3H:1V safety wedge into the proposed construction for any roadway edge of 2 in. or greater adjacent to a roadway under traffic.

Do not close any lanes before 9:00 AM, and all lanes must reopen by 4:00 PM unless otherwise directed.

Maintain access to all streets and driveways at all times.

No additional payment will be made for relocating existing sign assemblies to temporary mounts.

Wear safety vest, safety hat, and use a 24" STOP/SLOW paddle when flagging.

During one-way operations, station flaggers at all county roads and any other locations, such as private businesses, that may have traffic entering the work area.

General Notes

Sheet E

Project Number: STP 2008(574)

Sheet **6B**

County: Walker, etc

Control: 0917-27-035, etc.

Highway: VA

Removal of ground mounted temporary signs and supports as specified on standard sheet BC(5)-07, shall include the immediate backfilling of support holes with Type B embankment material and the compaction of the backfill material.

ITEM 504 "FIELD OFFICE AND LABORATORY"

Provide two Tablet PC Microcomputer with wireless broadband card, one printer, optical mouse, internet wireless router, one printer/scanner/fax unit copier. The internet service provider must have sufficient coverage in that area or be able to receive coverage with the use of amplified antennas, to be provided by the contractor as needed. Coverage includes the ability to provide consistent connection and performance of the connection.

Substitute MS Office Pro with MS Office STD (NOT Student and Teacher)

WinFAX Pro not required

Dragon Naturally Speaking Standard not required

Adobe Acrobat Professional (current version)

Webcam not required

Secure Digital (SD) option not required

ITEM 506 "TEMPORARY EROSION, SEDIMENTATION AND ENVIRONMENTAL CONTROLS"

It is not anticipated that any erosion control devices will be needed on this project. However, in the event that any devices are needed, payment for the work will be determined in accordance with Article 9.4, "Payment for Extra Work".

ITEM 531 "SIDEWALKS"

All compliant curb ramps and ramps are to remain in place.

Use an approved cast-in-place detectable warning system for new ramps except use contrasting color ADA pavers where ramps are composed of landscape pavers.

Construct compliant curb ramps based upon referenced design criteria, Texas Accessibility Standards and TxDOT Pedestrian Facilities Standards. Consider the locations of existing traffic and pedestrian control devices including loop detectors and pedestrian push buttons during curb ramp construction at signalized intersections, and construct curb ramps to allow such existing facilities to remain undisturbed and reused to the fullest extent possible

General Notes

Sheet F

Project Number: STP 2008(574)

Sheet **6C**

County: Walker, etc

Control: 0917-27-035, etc.

Highway: VA

while providing for full ADA compliance. All corners are unique and it may be necessary to use various combinations of ramp elements to achieve a compliant curb ramp configuration. Order of preference for curb ramp selection is as follows:

1. Perpendicular (including directional) – TxDOT Types 1, 7, 10; Types 20, 21, 22
2. Combination – Types 3, 6
3. Parallel – Types 2, 5, 11
4. Diagonal – Types 4, 8, 9

Review the curb ramp location and layout with TxDOT's inspector prior to demolition so that both parties agree that the curb ramp can be installed properly. Should it become apparent at any time during the curb ramp layout and construction process that a curb ramp cannot be installed as indicated on the Project Drawings, promptly notify the TxDOT inspector.

Any approval, inspection, or checking of the contractor's layout by TxDOT and the acceptance of all or any part of it shall not relieve the contractor of his responsibility to secure the proper dimensions, grades and elevations of the various parts of the work.

Construction of each curb ramp is to be completed within seven (7) working days after start of construction process. In addition, work will not be allowed to take place at the next intersection in any direction until current intersection is complete or directed by the TxDOT inspector. Construction process of curb ramps shall include: demolition of existing conditions, placement of concrete or brick, removal of lips, street surface patching in front of the curb or ramp, adjustment of counter slope within 24-inches of the bottom of the ramp or curb and gutter, street level landings, backfill, placement of topsoil, grading and sodding, and clean-up. All other related work such as adjustment of crosswalk, special heat-welds, asphalt overlays, and other work that does not affect accessibility shall be completed per a schedule pre-approved by TxDOT.

ITEM 618 "CONDUIT"

Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) - Construction Division's (CST) materials producers list. See http://www.dot.state.tx.us/business/producer_list.htm for list of pre-qualified manufacturers. Category is "Roadway Illumination and Electrical Supplies."

ITEM 624 "GROUND BOXES"

Install Type D ground boxes as replacements. Ground boxes conforming to the requirements of Item 624 and ED (3)-03 may be reinstalled as approved.

Project Number: STP 2008(574)

Sheet **6C**

County: Walker, etc

Control: 0917-27-035, etc.

Highway: VA

ITEM 644 "SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES"

Contractor to reinstall City signs, etc. in ramp locations where necessary.

ITEM 666 "REFLECTORIZED PAVEMENT MARKINGS"

All striping limits must be approved by the Engineer before striping operations may begin.

ITEM 690 "MAINTENANCE OF TRAFFIC SIGNALS"

Minor adjustments to existing pedestrian signal heads may be required and will be as directed. This work will not be paid for directly but shall be considered subsidiary to the various bid items.

Have temporary stop signs available during the replacement of ground boxes in case signal loses power during contractor operations.

ITEM 5010 "TRANSPORTABLE CELLULAR TELEPHONES"

Provide two (2) transportable cellular telephone (TCT) as per Special Specification 5010. One belt clip, one vehicle charger, and one office charger (per telephone) shall be included upon notification. This will not be paid for directly, but will be subsidiary to Item 500, "Mobilization".

ITEM 5522 "RETROFIT DETECTABLE WARNING SURFACE"

Apply an approved surface applied detectable warning surface to otherwise compliant existing curb ramps as directed. See 'Qualified Detectable Warning Materials' list at: http://www.dot.state.tx.us/business/producer_list.htm for approved products.

ESTIMATE		SUMMARY
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PROJECT STP 2008 (574)										ALT	ITEM CODE			DESCRIPTION	UNIT	TOTAL	
CONTROL 0917-27-035, ETC.											VA					EST.	FINAL
ALL BID ITEMS											ITEM NO	DESC CODE	SP NO				
EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL						EST.	FINAL	
								100.000			104	2015		REMOVING CONC (SIDEWALKS)	SY	100.000	
								42.000			104	2017		REMOVING CONC (DRIVEWAYS)	SY	42.000	
								1696.000			104	2022		REMOVING CONC (CURB AND GUTTER)	LF	1696.000	
								7.000			104	2028		REMOVING CONC (MISC)	SY	7.000	
								23.000			110	2003		EXCAVATION (SPECIAL)	CY	23.000	
								10.000			132	2001		EMBANKMENT (FINAL) (ORD COMP) (TY A)	CY	10.000	
								1858.000			161	2026	001	COMPOST MANUF TOPSOIL (BOS OR PB) (6")	SY	1858.000	
								1858.000			162	2002		BLOCK SODDING	SY	1858.000	
								22.000			168	2001		VEGETATIVE WATERING	MG	22.000	
								150.000			340	2050		D-GR HMA (METH) TY-C PG70-22	TON	150.000	
								28.000			351	2002		FLEXIBLE PAVEMENT STRUCTURE REPAIR (6")	SY	28.000	
								18.000			354	2018		PLAN & TEXT CONC PAV (0" TO 3")	SY	18.000	
								750.000			354	2021		PLANE ASPH CONC PAV (0" TO 2")	SY	750.000	
								1299.000			423	2006		RETAINING WALL (CONC BLOCK)	SF	1299.000	
								3.000			432	2050		RIPRAP (CONC) (CL B) (5 IN)	CY	3.000	
								110.000			450	2072		RAIL (HANDRAIL) (TY A)	LF	110.000	
								40.000			452	2002		REMOV RAIL (METAL ELEMENTS)	LF	40.000	
								13.000			464	2003		RC PIPE (CL III) (18 IN)	LF	13.000	
								2.000			465	2001	001	INLET (COMPL) (TY C)	EA	2.000	
								1.000			471	2001		GRATE	EA	1.000	
								5.000			479	2001		ADJ MANHS	EA	5.000	
								2.000			479	2002		ADJ INLETS	EA	2.000	
								1.000			500	2001	005	MOBILIZATION	LS	1.000	
								14.000			502	2001	033	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	14.000	
								1650.000			529	2004		CONC CURB & GUTTER (TY II)	LF	1650.000	
								22.000			529	2026		CONC CURB (ARMOR CURB SLOT)	LF	22.000	
								1913.000			531	2004	006	CONC SIDEWALKS (6")	SY	1913.000	
								1.000			531	2018	006	CURB RAMPS (SPECIAL)	EA	1.000	
								22.000			531	2050	006	CONC SIDEWALK (BRIDGE) (6') (1'9")	LF	22.000	
								6878.000			531	2054	006	CURB RAMPS	SY	6878.000	
								40.000			618	2034		CONDT (PVC) (SCHD 80) (2")	LF	40.000	
								80.000			620	2011	001	ELEC CONDR (NO. 8) BARE	LF	80.000	
								45.000			624	2013		GROUND BOX TY D (162922)	EA	45.000	
								20.000			644	2056		RELOCATE SM RD SN SUP & AM TY 10BW6	EA	20.000	
								2668.000			666	2042		REFL PAV MRK TY I (W) 12" (SLD) (100MIL)	LF	2668.000	
								1071.000			666	2048		REFL PAV MRK TY I (W) 24" (SLD) (100MIL)	LF	1071.000	
								2763.000			677	2005		ELIM EXT PAV MRK & MRKS (12")	LF	2763.000	
								1071.000			677	2007		ELIM EXT PAV MRK & MRKS (24")	LF	1071.000	
								80.000			684	2007		TRF SIG CBL (TY A) (12 AWG) (2 CONDR)	LF	80.000	
								4.000			687	2001		PED POLE ASSEMBLY	EA	4.000	
								15.000			688	2001		PED DETECT (2 INCH PUSH BTN)	EA	15.000	
								15.000			690	2030		REMOVAL OF PEDESTRIAN PUSH BUTTONS	EA	15.000	
								33.000			5522	2004		RETROFIT DET WARN SURF (SURF APPLIED)	EA	33.000	
								131.000			5560	2001		REMOVE AND RELAY LANDSCAPE PAVERS	SY	131.000	

ESTIMATE & QUANTITY SHEET

STATE DIST. NO.	COUNTY	PROJECT NO.	SHEET NO.
17	WALKER, ETC.	STP 2008 (574)	7

ITEM NUMBER	104	104	104	110	132	161	SUMMARY OF QUANTITIES									
	2017	2022	2028	2003	2001	2026	162	168	351	354	423	432	450	452	464	465
DESCRIPTION	REMOVING CONC (DRIVEWAYS)	REMOVING CONC (CURB AND GUTTER)	REMOVING CONC (MISC)	EXCAVATION (SPECIAL)	EMBANKMENT (FINAL) (ORD COMP) (TY A)	COMPOST MANUF TOPSOIL (BOS OR PB) (6")	BLOCK SODDING	VEGETATIVE WATERING	FLEXIBLE PAVEMENT STRUCTURE REPAIR (6")	PLAN & TEXT CONC PAV (0" TO 3")	RETAINING WALL (CONC BLOCK)	RIPRAP (CONC) (CL B) (5 IN)	RAIL (HANDRAIL) (TY A)	REMOV RAIL (METAL ELEMENTS)	RC PIPE (CL III) (18 IN)	INLET (COMPL) (TY C)
UNITS	SY	LF	SY	CY	CY	SY	SY	MG	SY	SY	SF	CY	LF	LF	LF	EA
CSJ 0917-27-035	42	746	3	22	10	418	418	5	24	18	52	3	110	0	13	2
CSJ 0917-29-100	0	950	4	1	0	1440	1440	17	4	0	1247	0	0	40	0	0
PROJECT TOTALS	42	1696	7	23	10	1858	1858	22	28	18	1299	3	110	40	13	2

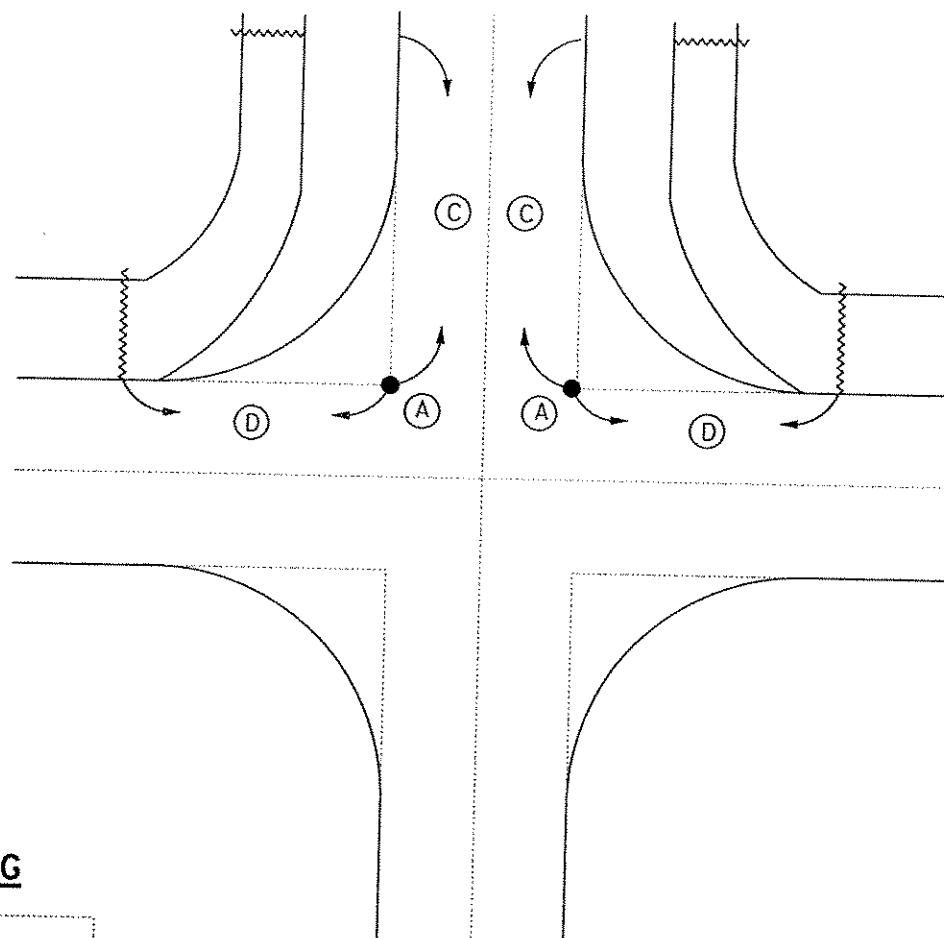
ITEM NUMBER	471	478	479	529	529	531	SUMMARY OF QUANTITIES									
	2001	2001	2002	2004	2026	2004	531	531	531	618	620	624	644	666	666	677
DESCRIPTION	GRATE	ADJ MANHS	ADJ INLETS	CONC CURB & GUTTER (TY II)	CONC CURB (ARMOR CURB SLOT)	CONC SIDEWALKS (6")	CURB RAMPS (SPECIAL)	CONC SIDEWALK (BRIDGE) (6") (1' 9")	CURB RAMPS	CONDT (PVC) (SCHD 80) (2")	ELEC CONDR (NO. 8) BARE	GROUND BOX TY D (162922)	RELOCATE SM RD SN SUP & AM TY 10BWC	REFL PAV MRK TY I (W) 12" (SLD) (100M/L)	REFL PAV MRK TY I (W) 24" (SLD) (100M/L)	ELIM EXT PAV MRK & MRKS (12")
UNITS	EA	EA	EA	LF	LF	SY	EA	LF	SY	LF	LF	EA	EA	LF	LF	LF
CSJ 0917-27-035	0	2	2	731	0	557	1	0	1941	20	40	26	8	788	239	883
CSJ 0917-29-100	1	3	0	919	22	1356	0	22	4937	20	40	19	12	1880	832	1880
PROJECT TOTALS	1	5	2	1650	22	1913	1	22	6878	40	80	45	20	2668	1071	2763

SUMMARY OF QUANTITIES							
ITEM NUMBER	677	684	687	688	690	5522	5560
	2007	2007	2001	2001	2030	2004	2001
DESCRIPTION	ELIM EXT PAV MRK & MRKS (24")	TRF SIG CBL (TY A) (12 AWG) (2 CONDR)	PED POLE ASSEMBLY	PED DETECT (2 INCH PUSH BTN)	REMOVAL OF PEDESTRIAN PUSH BUTTONS	RETROFIT DET WARN SURF (SURF APPLIED)	REMOVE & RELAY LANDSCAPE PAVERS
UNITS	LF	LF	EA	EA	EA	EA	SY
CSJ 0917-27-035	239	40	2	9	9	6	131
CSJ 0917-29-100	832	40	2	6	6	27	0
PROJECT TOTALS	1071	80	4	15	15	33	131

SUMMARY OF INDEFINITES			
ITEM NUMBER	104	340	354
	2015	2050	2021
DESCRIPTION	REMOVING CONC (SIDEWALKS)	D-CR HMA (METH) TY-C PG70-22	PLANE ASPH CONC PAV (0" TO 2")
UNITS	SY	TON	SY
CSJ 0917-27-035			
CSJ 0917-29-100			
PROJECT TOTALS	100	150	750

SUMMARY SHEET

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6			8
STATE	STATE DIST. NO.	COUNTY	
TEXAS	BRY	WALKER, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0917	27	035, ETC.	VARIES



EXISTING

LEGEND

- PP = POWER POLE
- CA = GUY ANCHOR
- ⊙ TP = EX. TRAF. SIGNAL POLE
- PB = PED BUTTON
- Ⓟ = NEW PED POLE W/ PED BUTTON
- ⊠ GB = GROUND BOX
- ⊠ EL = ELECTRICAL PEDESTAL/BOX
- LP = LIGHT POLE
- ⊙ FH = FIRE HYDRANT
- ⊙ WV = WATER VALVE
- MH = MANHOLE
- ⊠ IN = INLET
- ⊙ TR = TREE
- * SH = SHRUB; ~ GRASS
- ⊠ SN = SIGN; --- = NEW CONDUIT
- ⊠ CL = CONSTRUCTION LIMITS
- ⊠ ER = EXIST RAMP; SW = SIDEWALK
- L = LANDING; R = RAMP
- F = FLARE; T = TRANSITION
- RC = REPLACE CURB/CURB & GUTTER

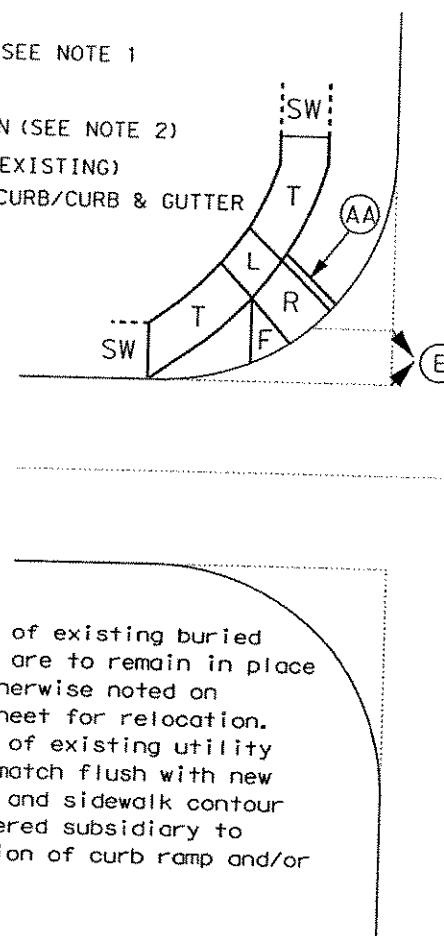
- (A) P. I. OF EXTENDED BACK OF CURB LINES (OR EDGE OF ROADWAY IF NO CURB)
- (C) DISTANCE FROM P. I. TO LIMITS OF SIDEWALK REMOVAL/CONSTRUCTION LIMITS
- (D) DISTANCE FROM P. I. TO LIMITS OF CURB AND SIDEWALK REMOVAL/CONSTRUCTION LIMITS
- (E) DISTANCE FROM P. I. TO CENTER LINE OF CURB RAMP

NOTES:

1. FLARE (F), RAMP (R), AND LANDING (L) ARE PAID FOR UNDER ITEM 531 "CURB RAMPS"
2. TRANSITION (T) IS PAID FOR UNDER ITEM 531 "CONC SIDEWALKS (6")"

LEGEND

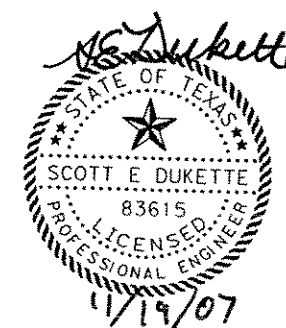
- F = FLARE
- R = RAMP
- L = LANDING
- T = TRANSITION (SEE NOTE 2)
- SW = SIDEWALK (EXISTING)
- RC = REPLACE CURB/CURB & GUTTER



Note: Locations of existing buried utilities are to remain in place unless otherwise noted on drawing sheet for relocation. Resetting of existing utility boxes to match flush with new curb ramp and sidewalk contour is considered subsidiary to construction of curb ramp and/or sidewalk.

PROPOSED

- (AA) PROPOSED CURB ALONG RAMP EDGE
- NOTE: CURBS ARE NOT USUALLY SHOWN ON THESE DRAWINGS IF THE CURB IS 'STANDARD' TO THE RAMP, SUCH AS TYPE 2, 21, ETC.



N. T. S.

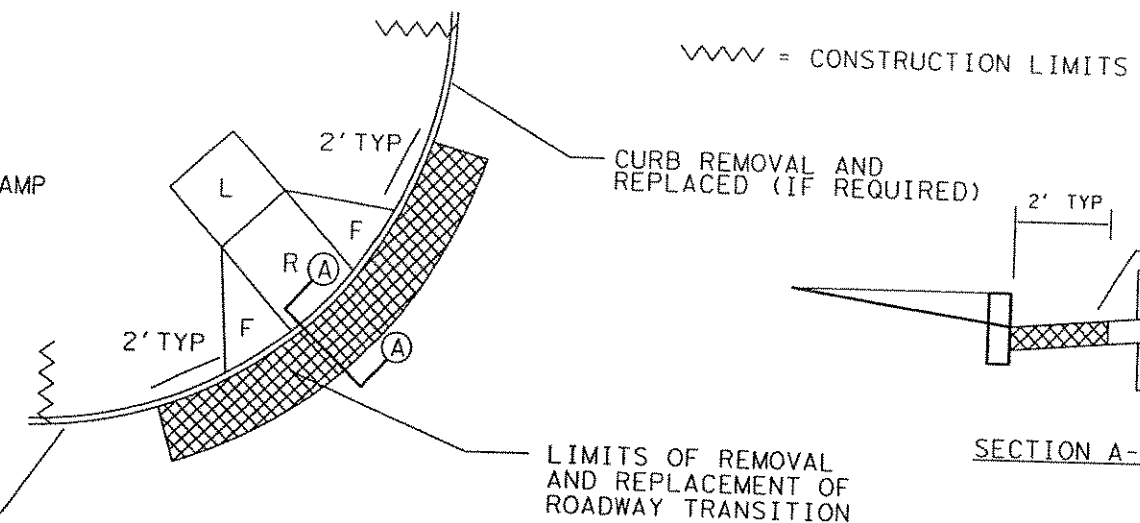
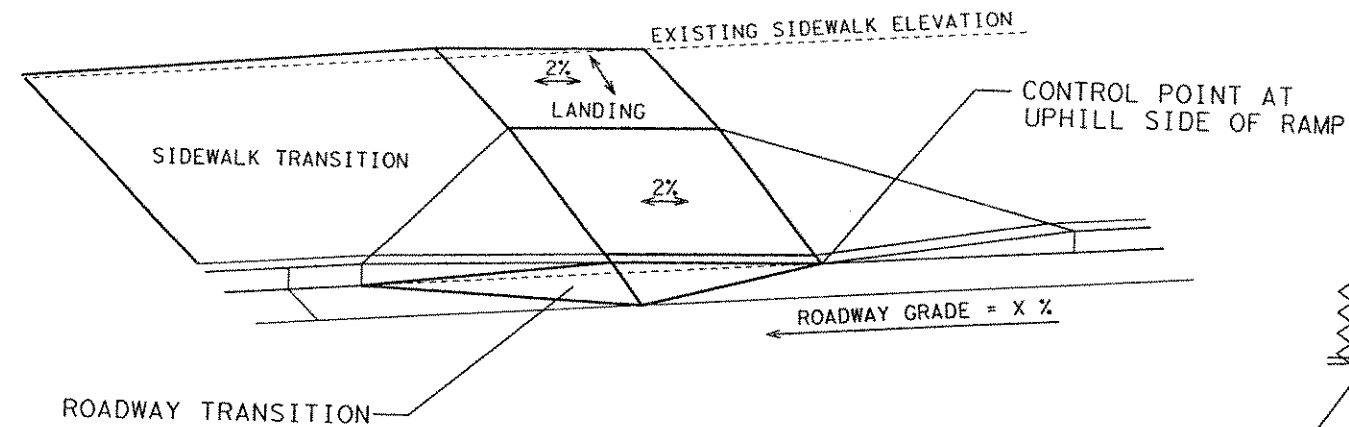


klotz associates

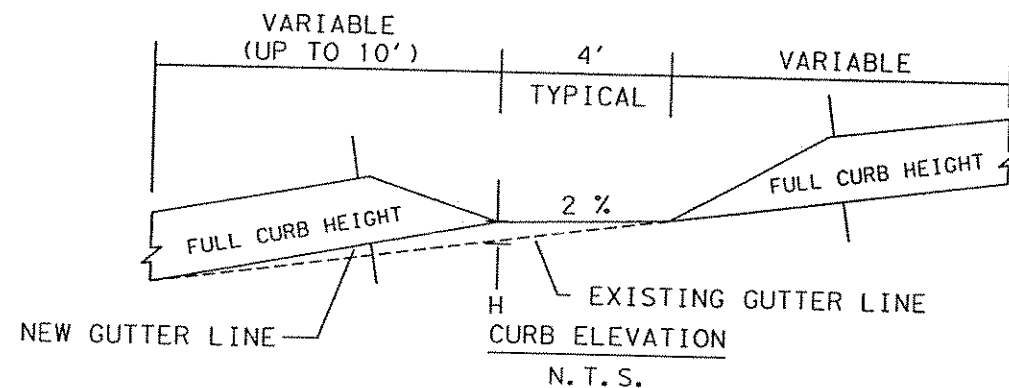
ADA CURB RAMP PROGRAM SAMPLE INTERSECTION

DWG. NO.	6	STATE	TEXAS	STATE PROJECT NO.	VARIES
CK. BY	SAS	COUNTY		CONTROL NO.	
DWG. NO.	0917	SECTION NO.	27	SHEET NO.	25
CK. TR.					

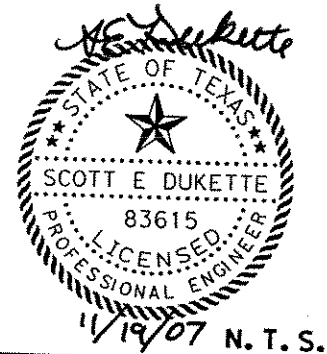
ROADWAY TRANSITION



SECTION A-A



SECTION B-B



GRADE DIFFERENTIAL BETWEEN CURB RAMP CROSS SLOPE AND ROADWAY GRADE	H*
1 %	0.04' (1/2")
2 %	0.08' (1")
3 %	0.12' (1 1/2")
4 %	0.16' (2")
5 %	0.20' (2 1/2")

* H = DIFFERENCE IN ELEVATION BETWEEN THE NEW GUTTER LINE AND EXISTING GUTTER LINE

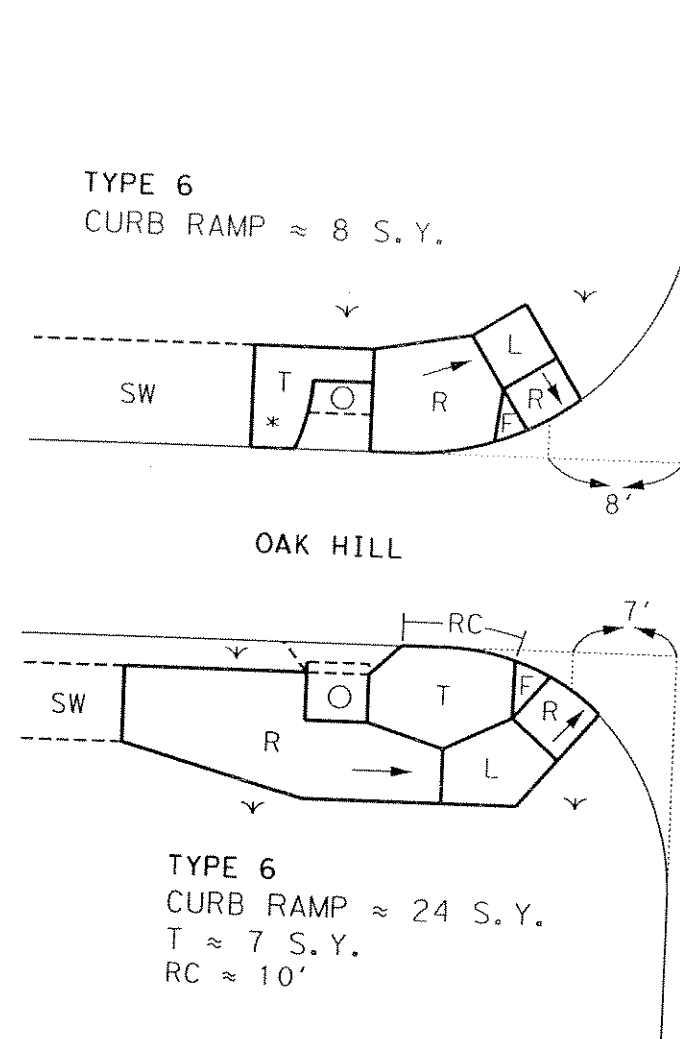
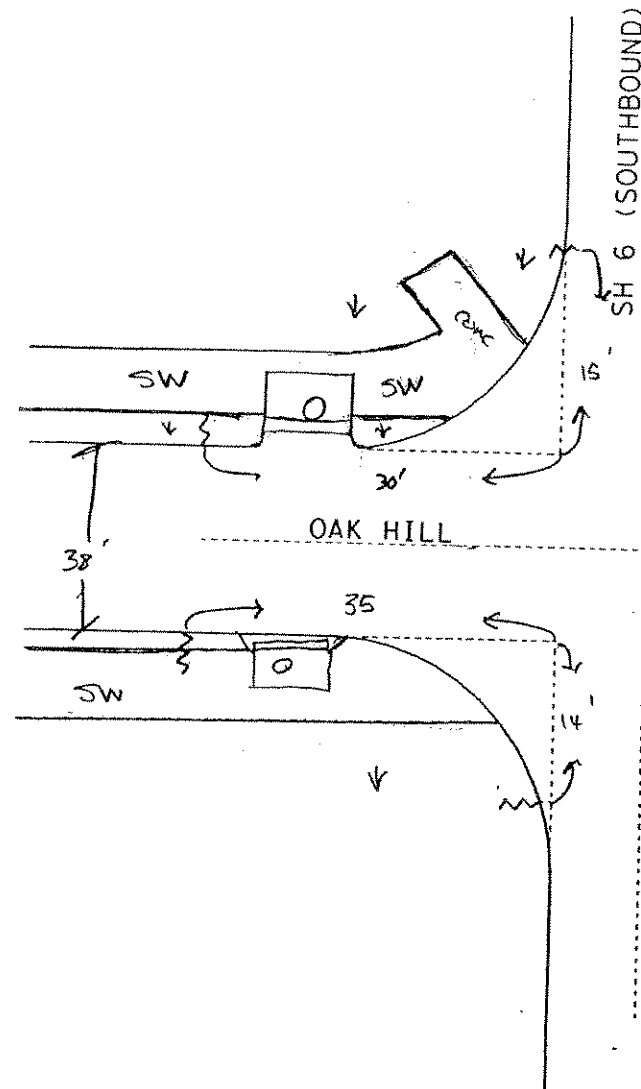
NOTES:

1. UTILIZE ROADWAY TRANSITION TO TIE CROSS SLOPE OF NEWLY CONSTRUCTED CURB RAMP TO THE EXISTING ROADWAY GRADE. ROADWAY TRANSITIONS SHOULD NOT EXTEND MORE THAN 2 FEET INTO ROADWAY.
2. FOR CURB SECTION, REMOVE A 2 FOOT WIDE BY 2 INCH DEEP SECTION OF PAVEMENT THE LENGTH OF THE TRANSITION PRIOR TO CONSTRUCTION.
3. FOR CURB AND GUTTER SECTION, REMOVE CURB, GUTTER AND IF NECESSARY A SECTION OF PAVEMENT UP TO 6 INCHES WIDE BY 6 INCHES DEEP BEYOND THE GUTTER. CONSTRUCT TRANSITION IN THE GUTTER SECTION AS SHOWN.
4. CONSTRUCT FULL HEIGHT CURB AND CURB RAMP FLARES (IF REQUIRED) BASED ON NEW GUTTER LINE ELEVATIONS.
5. CONSTRUCT TRANSITION FROM BOTTOM OF CURB RAMP TO ROADWAY WITH HOT-MIX ASPHALT CONCRETE AS PER PLANS AND SPECIFICATION OR AS DIRECTED.
6. TRAFFIC SIGNAL LOOP DETECTORS MAY EXIST WITHIN THE ROADWAY CONSTRUCTION TRANSITION ZONE. MAINTAIN OPERATION OF LOOP DETECTORS THROUGHOUT CONSTRUCTION. REPAIR OR REPLACE ANY LOOP DETECTORS DAMAGED DURING CONSTRUCTION OPERATIONS.



ADA CURB RAMP PROGRAM ROADWAY TRANSITION DETAIL

DR: JUS	REV. NO.	STATE	STATE PROJECT NO.	HIGHWAY NO.
CK: DLS	6	TEXAS		VARIES
DN: JEW	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CK: DM: MS/SD	BRY	WALKER, ETC.	0917	27
TR:				035, ETC. 26
CK: TR:				



EXISTING

LEGEND

- PP = POWER POLE
- GA = GUY ANCHOR
- ⊙ TP = EX. TRAF. SIGNAL POLE
- PB = PED BUTTON
- ⊕ = NEW PED POLE W/ PED BUTTON
- ⊗ GB = GROUND BOX
- ⊗ EL = ELECTRICAL PEDESTAL/BOX
- LP = LIGHT POLE
- ⊕ FH = FIRE HYDRANT
- ⊕ WV = WATER VALVE
- MH = MANHOLE
- ⊕ IN = INLET
- ⊕ TR = TREE
- * SH = SHRUB; √ = GRASS
- SN = SIGN; — = NEW CONDUIT
- CL = CONSTRUCTION LIMITS
- ER = EXIST RAMP; SW = SIDEWALK
- L = LANDING; R = RAMP
- F = FLARE; T = TRANSITION
- RC = REPLACE CURB/CURB & GUTTER

ITEM DESCRIPTION	UNIT	QUANT.
RETROFIT DETECTABLE WARNING SURFACE	EA	
REPLACE CONC CURB	LF	10
CONC SIDEWALKS (6")	SY	7
REMOVING CONC (CURB & GUTTER)	LF	10
ELEC CONDR BARE	LF	
COND (PVC)	LF	
TRF SIG CBL	LF	
PED DETECT (2 INCH PUSH BTN)	EA	
REMOVAL OF PEDESTRIAN PUSH BUTTONS	EA	
PED POLE ASSEMBLY	EA	
RELOC SM RD SN&AM (TY 10 BWG)	EA	
REF PAV MRK TY 1 (W) 12" (SLD)	LF	
REF PAV MRK TY 1 (W) 24" (SLD)	LF	
ELIM EXT PAV MRK & MRKS 12"	LF	
ELIM EXT PAV MRK & MRKS 24"	LF	

PROPOSED

ITEM DESCRIPTION	UNIT	QUANT.
CURB RAMPS (TY 1) *	EA	
CURB RAMPS (TY 2) *	EA	
CURB RAMPS (TY 3) *	EA	
CURB RAMPS (TY 4) *	EA	
CURB RAMPS (TY 5) *	EA	
CURB RAMPS (TY 6) *	EA	2
CURB RAMPS (TY 7) *	EA	
CURB RAMPS (TY 9) *	EA	
CURB RAMPS (TY 10) *	EA	
CURB RAMPS (TY 20) *	EA	
CURB RAMPS (TY 21) *	EA	
CURB RAMPS (TY 22) *	EA	
CURB RAMPS	SY	32
ADJ MANHS	EA	
REPLACE GROUND BOX	EA	
RAIL (HANDRAIL)	LF	
DRIVEWAYS (CONC)	SY	
ADJUST METER BOX TO GRADE	EA	

ITEM DESCRIPTION	UNIT	QUANT.
COMPOST MANUF TOPSOIL	SY	7
EXCAVATION (SPECIAL)	CY	
BLOCK SODDING	SY	7

* = FOR CONTRACTOR'S INFORMATION "ONLY"
NON-PAY ITEM



*TRANSITION FLUSH
WITH EXISTING INLET

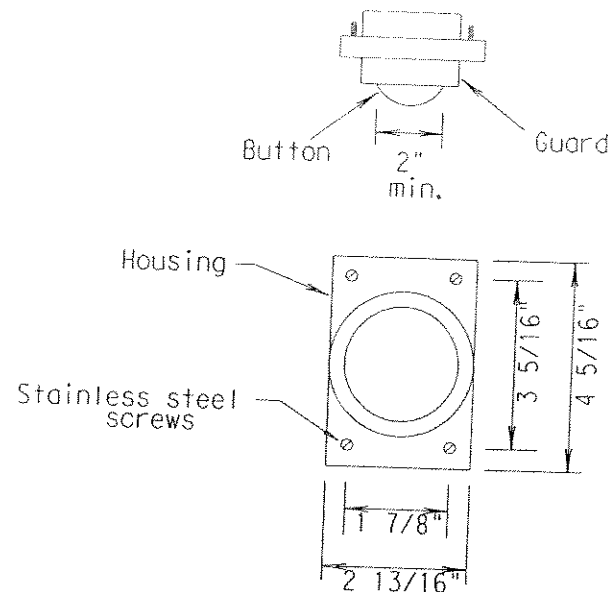
N. T. S.



klotz associates

ADA CURB RAMP PROGRAM
BRYAN, TEXAS
SH 6 (SOUTHBOUND) AT
OAK HILL

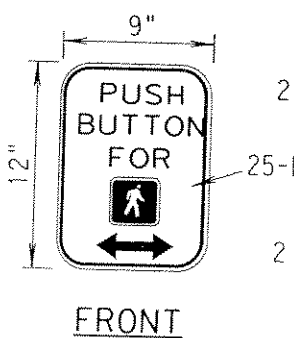
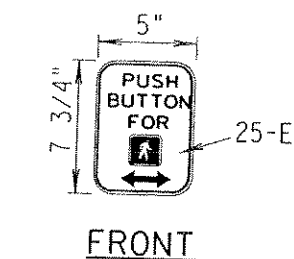
DATE: 12/6/07	BY: S.E. DUKETTE	STATE: TEXAS	STATE PROJECT NO.:	ROADWAY NO.:
DATE: 12/6/07	BY: S.E. DUKETTE	STATE: TEXAS	STATE PROJECT NO.:	ROADWAY NO.:
DATE: 12/6/07	BY: S.E. DUKETTE	STATE: TEXAS	STATE PROJECT NO.:	ROADWAY NO.:
DATE: 12/6/07	BY: S.E. DUKETTE	STATE: TEXAS	STATE PROJECT NO.:	ROADWAY NO.:



STANDARD PUSHBUTTON

Mount with a gasket on a water tight cast aluminum switch box mounted on the pole as recommended by the manufacturer with wire access through the back of box.

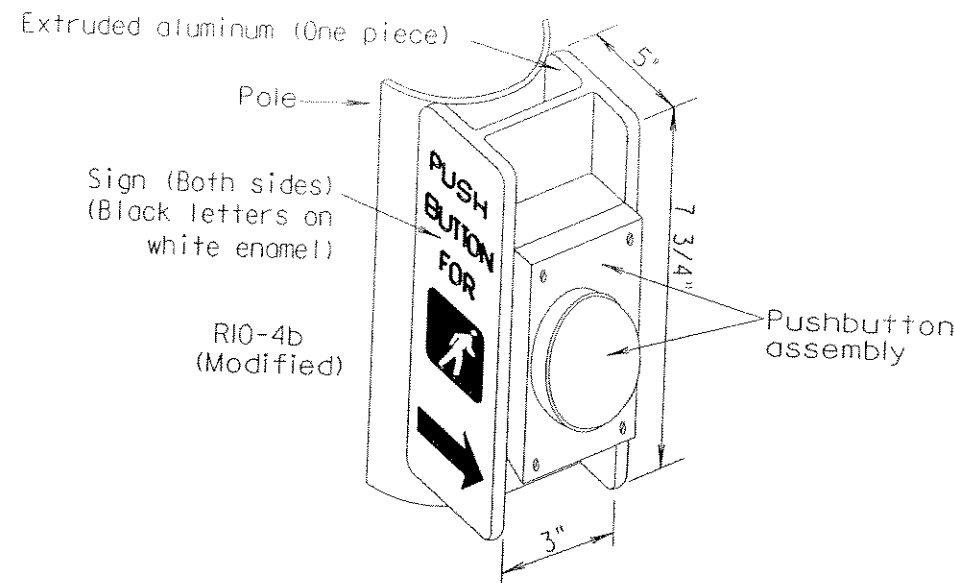
Use 5" x 7 3/4" sign on 4" pedestals & posts only



ALTERNATE TYPE 'I'

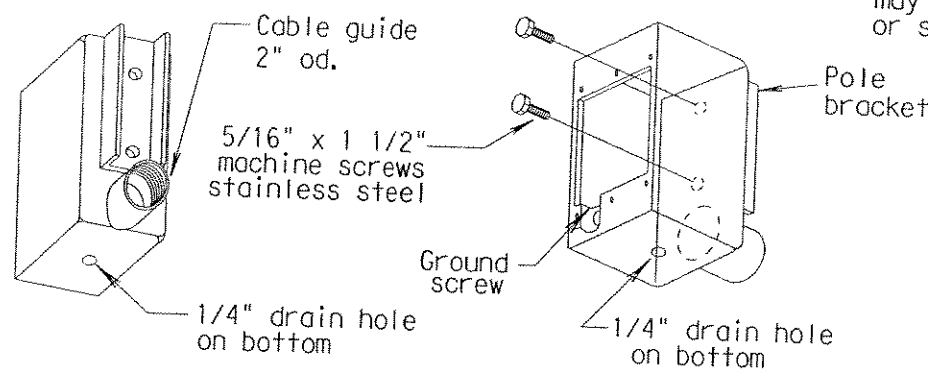
PUSHBUTTON INSTRUCTION SIGN (OR DECAL)

(Black letters on white enamel or decal where shown)
Mount directly to pole through the sign



STANDARD TYPE 'H' PUSHBUTTON AND INSTRUCTION SIGN

Wire access shall be through the back of the switch box. Mount with a gasket on a water tight cast aluminum switch box mounted on the pole as recommended by the manufacturer.

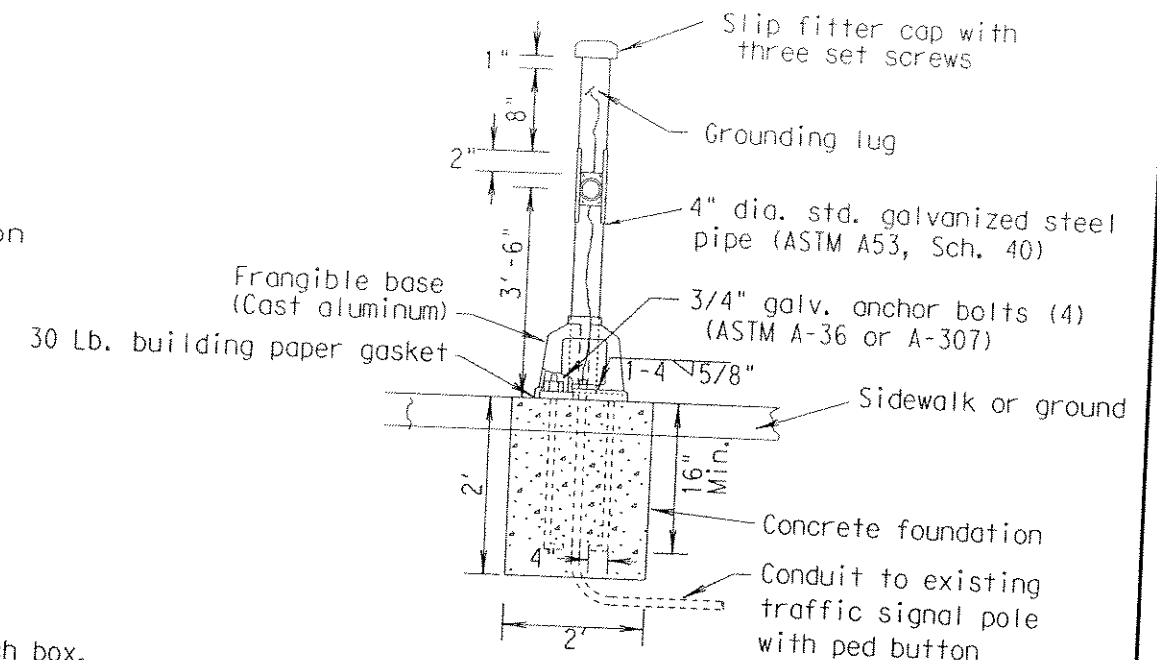


ALTERNATE HOLDER

Use with sign Type I

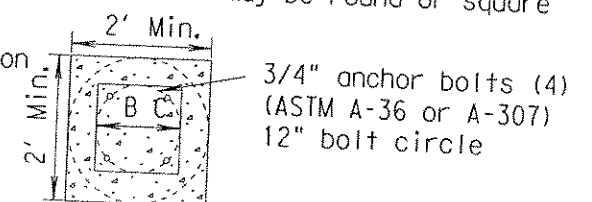
Note: All surface joints where concrete and aluminum meet shall be gasketed with 30 lb. building paper.

Note: All bolts, nuts and washers shall be stainless steel unless noted otherwise.



Top 4" of concrete foundation shall be square, remaining depth may be round or square

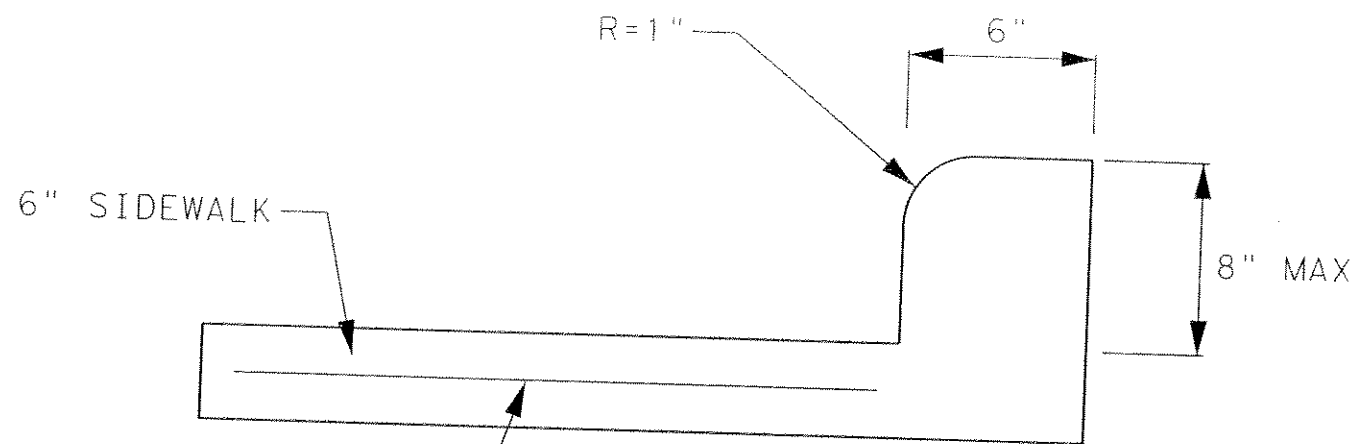
Top 4" of concrete foundation shall be square, remaining depth may be round or square



PEDESTRIAN OR BICYCLE PUSHBUTTON POST (PS)



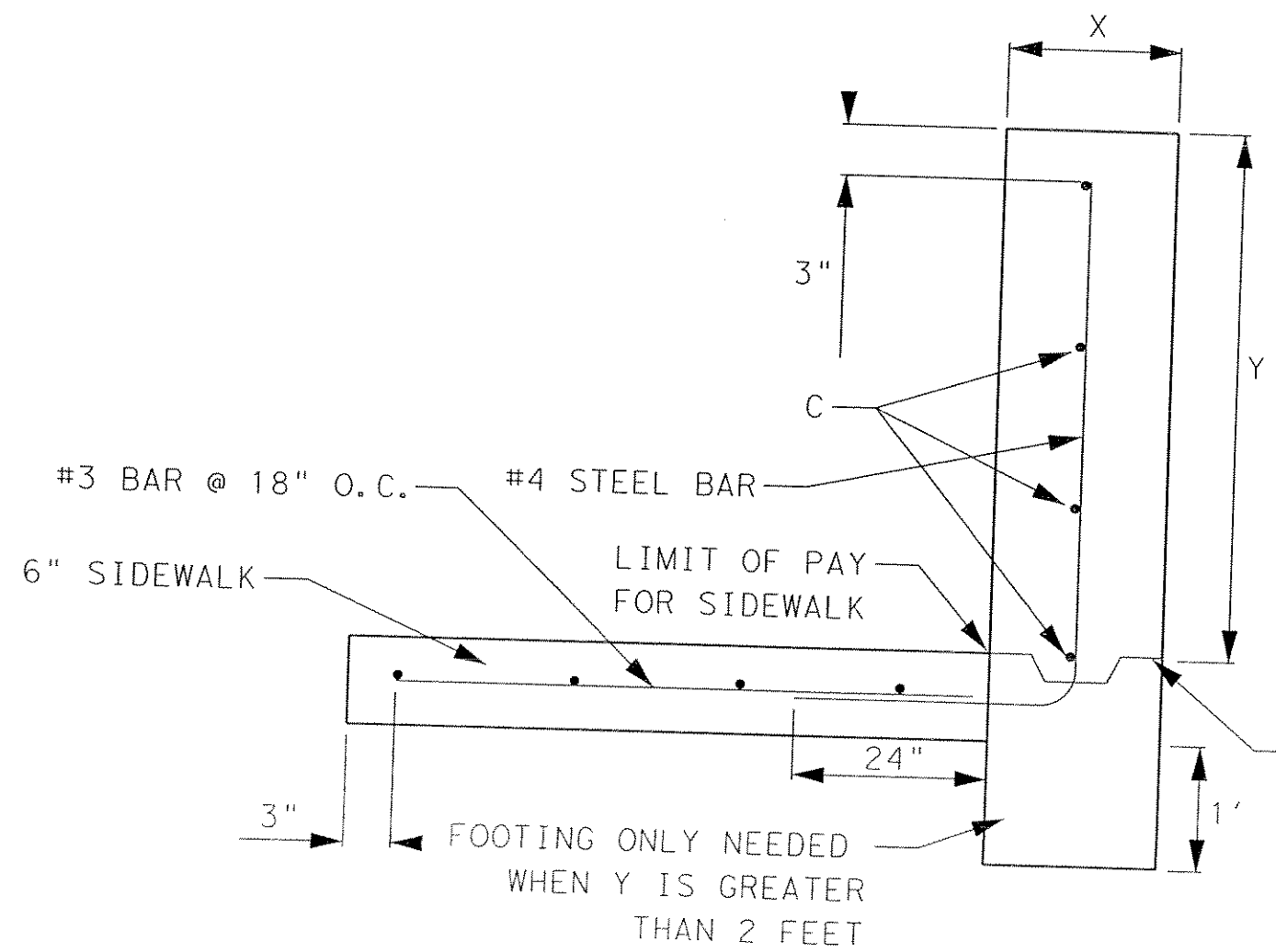
Texas Department of Transportation ©2007			
H.R. Gray For Construction Success		klotz associates	
ADA CURB RAMP PROGRAM DETAIL PEDESTRIAN SIGNALS			
DESIGNED BY: JVS CHECKED BY: SAS DATE: 05/07 DRAWN BY: MS/SD TITLE:	STATE: TEXAS COUNTY: BRY PROJECT NO.: 0517 27 SHEET NO.: 122	STATE PROJECT NO.: CONTROL NO.: SECTION NO.: JOB NO.: SHEET NO.:	VARIATION NO.:



#3 BAR @ 18" O.C. SIDE CURB DETAIL (A)

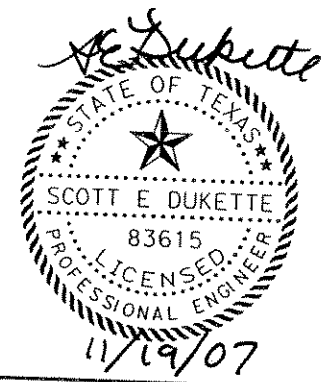
NOTE: ANYTHING 8" OR BELOW IN HEIGHT IS CONSIDERED SIDE CURB. SIDE CURB WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 531, "SIDEWALK" OR "CURB RAMP".

NOTE: LIMITS OF PAY FOR RETAINING WALL ARE BETWEEN THE TOP OF SIDEWALK AND TOP OF WALL (Y DIMENSION)

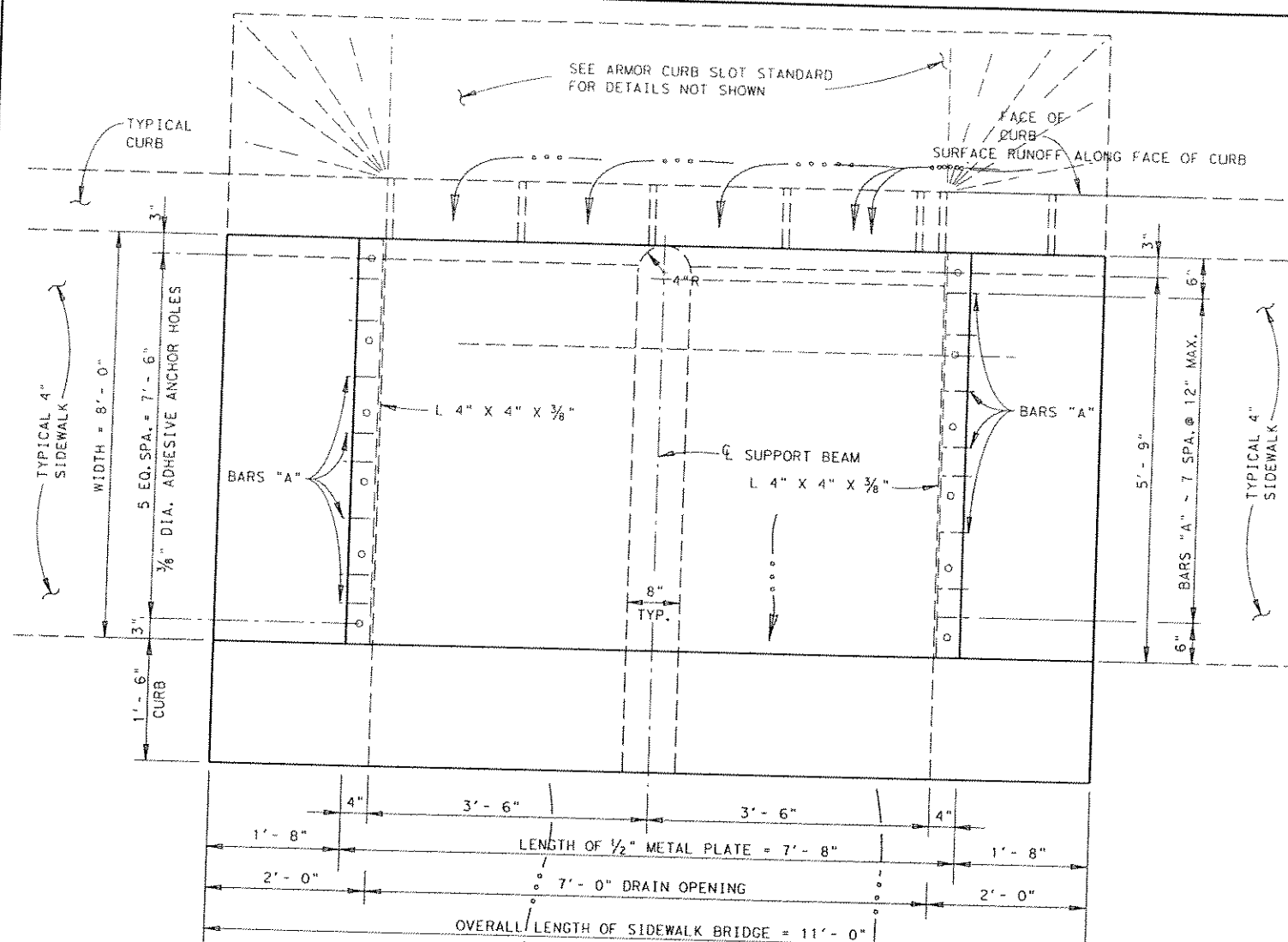


RETAINING WALL DETAIL (B)

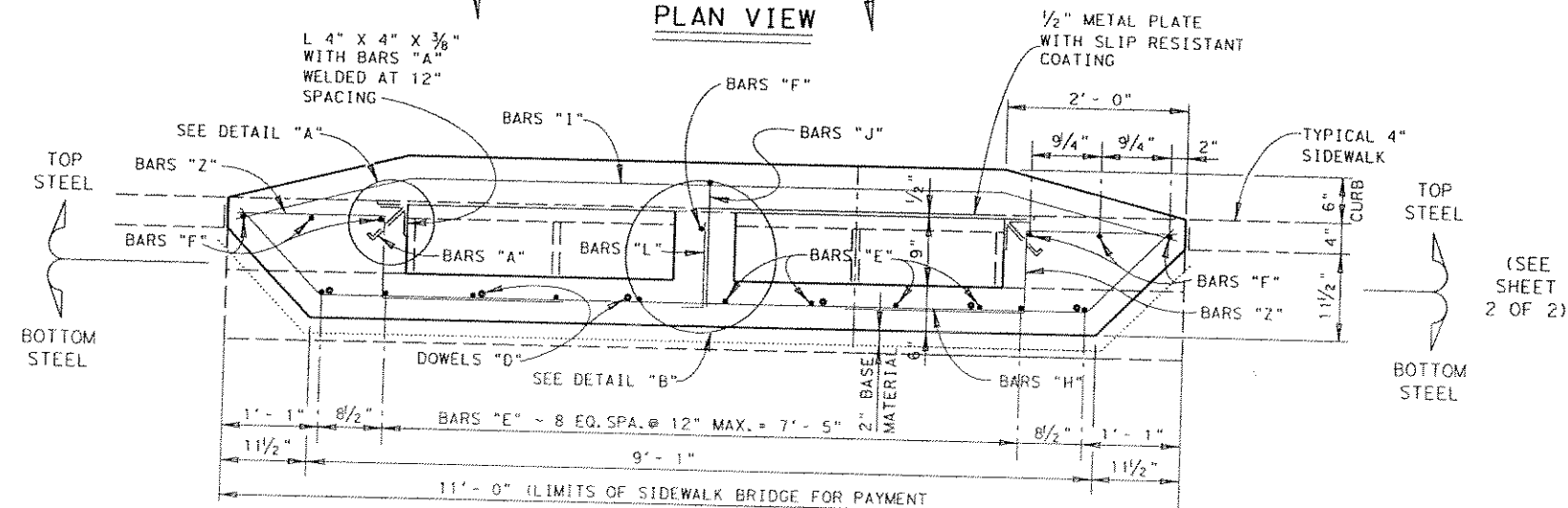
Y	X	#4 BAR SPA.	C at 12" C-C
8"-18"	6"	15"	#2
19"-24"	1'	15"	#3
25"-36"	1'	15"	#3



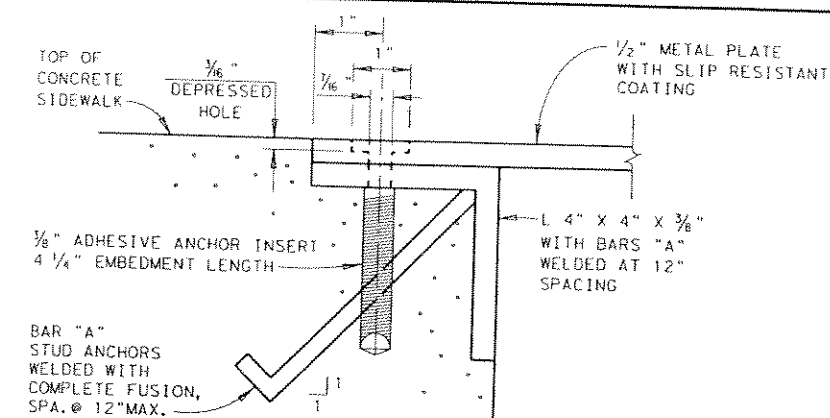
Texas Department of Transportation ©2007			
H.R. Gray For Construction Success		klotz & associates	
ADA CURB RAMP PROGRAM RETAINING WALL & SIDE CURB DETAIL			
DN: AJS CK DN: SAS DN: JEM CK DN: MS/SD TR:	PER. NO. 6 STATE TEXAS COUNTY BRY	STATE PROJECT NO. VARIES CONTROL NO. SECTION NO. JOB NO. SHEET NO.	HIGHWAY NO. VARIES



PLAN VIEW

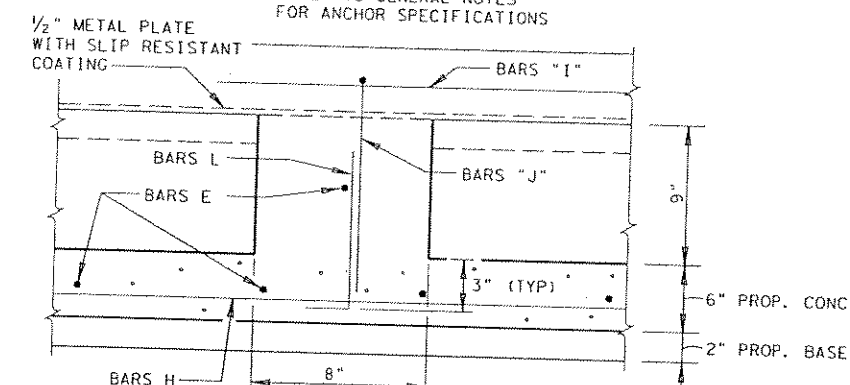


ELEVATION

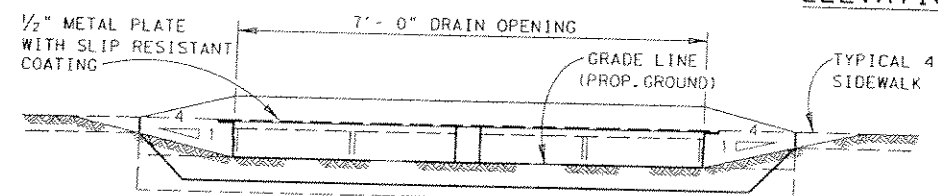
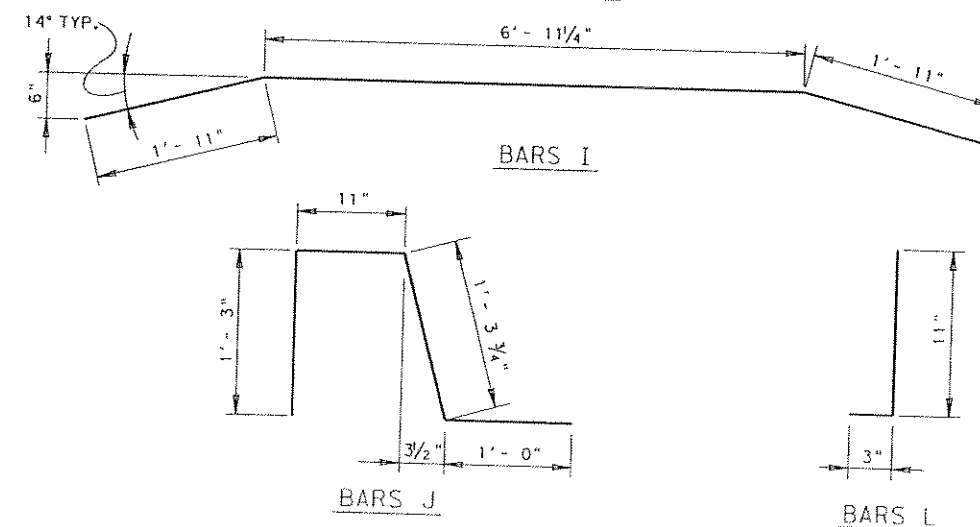


DETAIL "A"

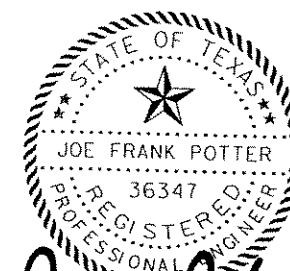
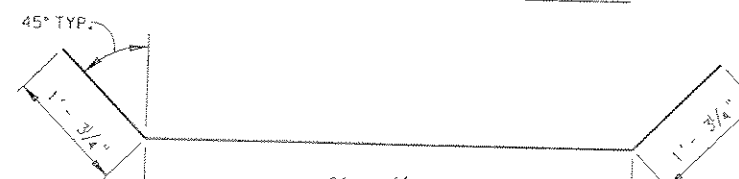
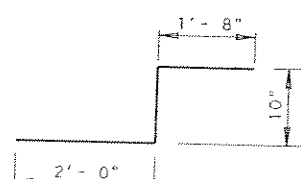
REFER TO GENERAL NOTES FOR ANCHOR SPECIFICATIONS



DETAIL "B"



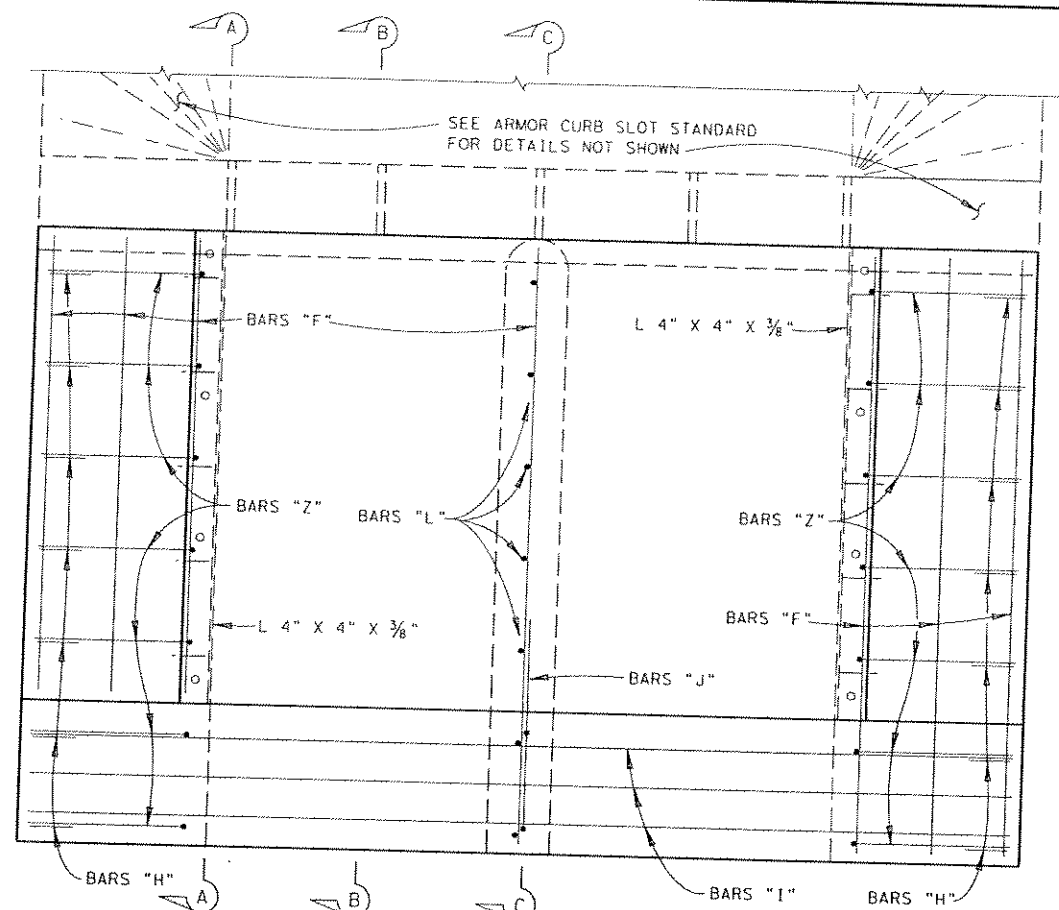
GRADING DETAIL
(AT BACK OF SIDEWALK BRIDGE)



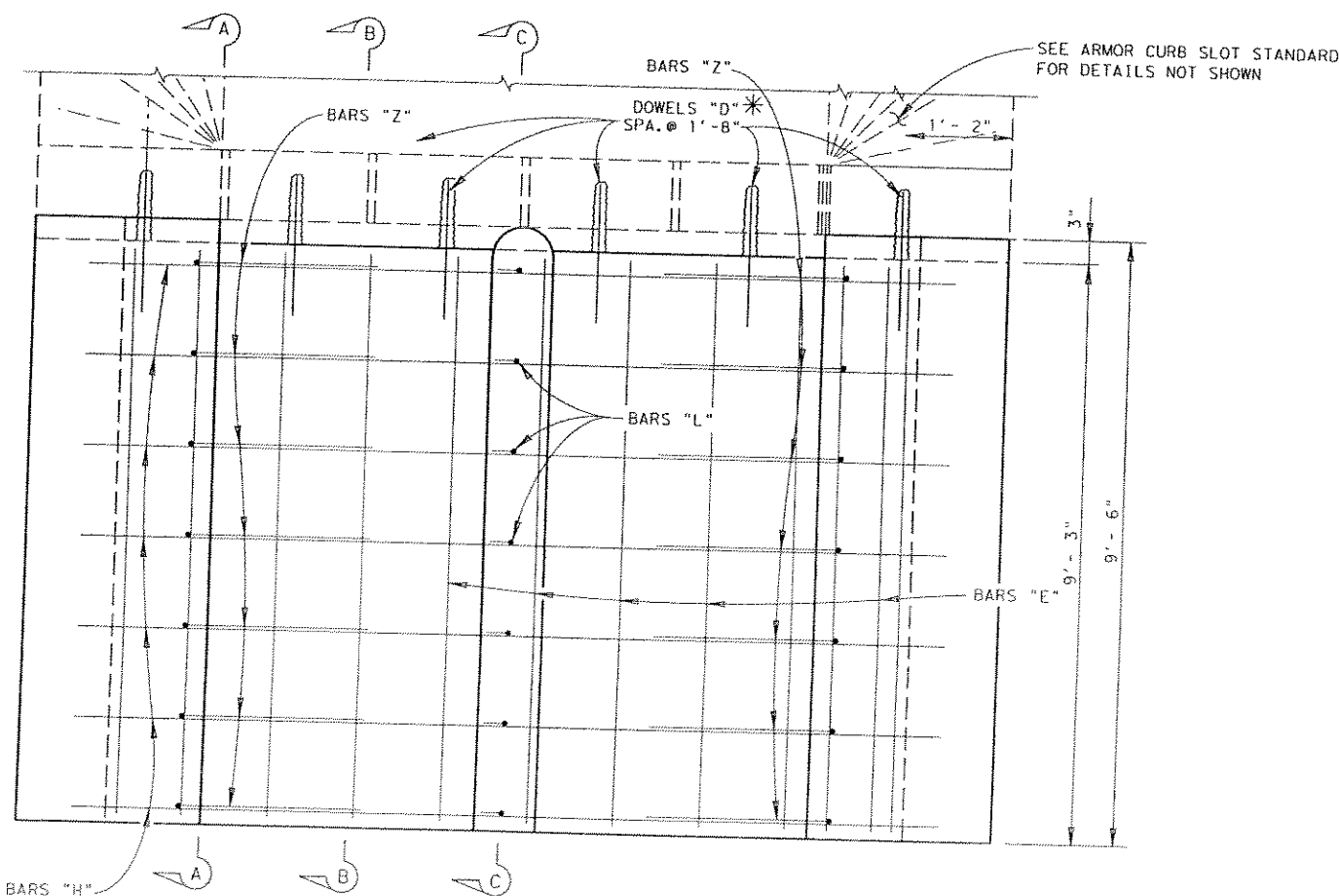
Joe Frank Potter, P.E.
02/03/08

SHEET 1 OF 2

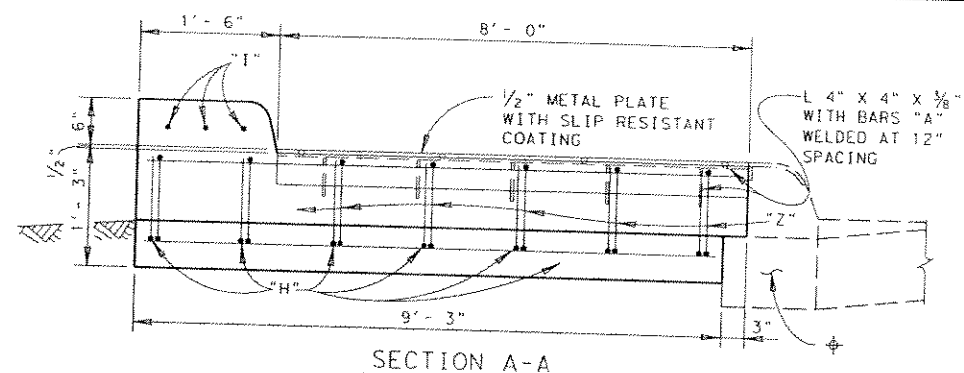
<p>SIDEWALK BRIDGE</p> <p>AT ARMOR CURB SLOT</p>			
<p>1: Engdata/Standards/Design/sdwkbrg.dgn</p>			
<p>ORIGINAL DRAWING DATE: MAY 2004</p>	<p>STATE DISTRICT</p>	<p>FEDERAL REGION</p>	<p>PREPARED BY AND FOR USE OF TxDOT</p>
<p>REVISIONS</p>	<p>6</p>	<p>6</p>	<p>SHEET 253</p>
<p>DN: MRM</p>	<p>COUNTY</p>	<p>CONTROL SECTION</p>	<p>JOB</p>



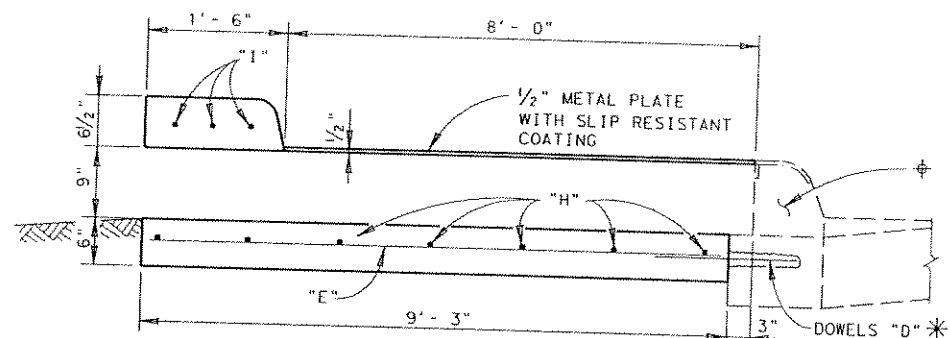
PLAN VIEW
(SHOWING TOP REINF. STEEL)



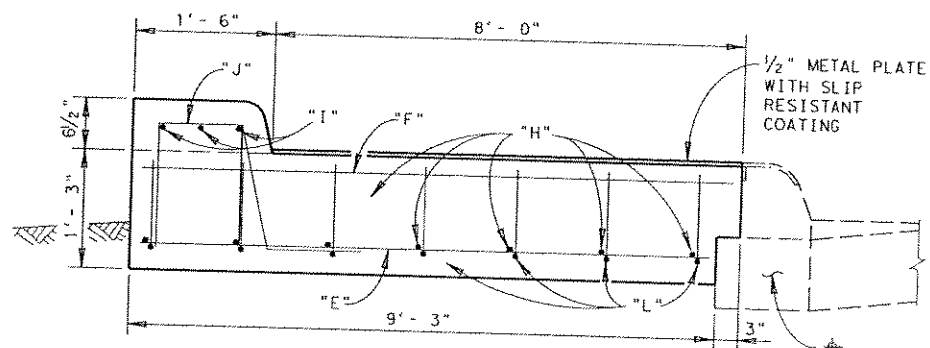
PLAN VIEW
(SHOWING BOTTOM REINF. STEEL)



SECTION A-A



SECTION B-B



SECTION C-C

SEE ARMOR CURB SLOT
FOR DETAILS NOT SHOWN

TABLE OF ESTIMATED QUANTITIES FOR ONE SIDEWALK BRIDGE				
BAR	NO.	SIZE	LENGTH	WEIGHT
A	16	#4	8"	7
D	8	#6	1'-6"	18
E	10	#4	9'-0"	60
F	10	#4	9'-3"	62
H	10	#4	11'-5"	76
I	3	#5	10'-9"	34
J	2	#4	4'-6"	6
L	10	#4	1'-2"	8
Z	20	#4	4'-6"	60
REINFORCING STEEL			LB	331
CL A CONC.			CY	2.6

STRUCTURAL STEEL FOR ONE SIDEWALK BRIDGE	
FLOOR PLATE 1-8' X 1/2" X 7'-8"	LB 1252
2 - 8 FT - L 4" X 4" X 3/8"	LB 157
TOTAL WT. *	LB 1409

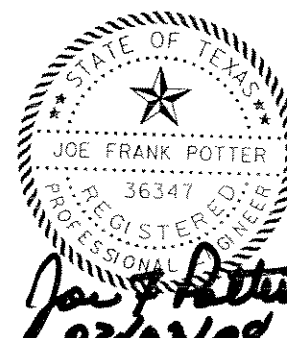
* FOR CONTRACTORS INFORMATION ONLY

GENERAL NOTES

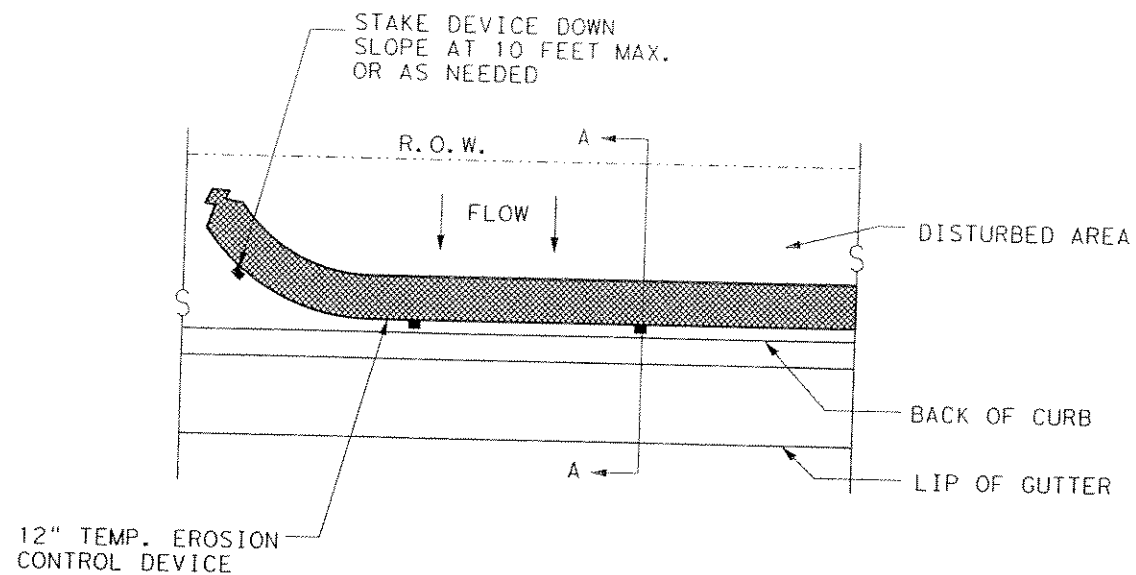
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING MATERIAL.
- ALL CONCRETE SHALL BE CL. "A"
- STRUCTURAL STEEL SHALL BE GRADE A36
- ALL REINFORCING STEEL SHALL BE GRADE 60.
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2 IN
- ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- ALL METAL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION.
- GALVANIZING DAMAGED DURING TRANSPORT OR CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE SLIP RESISTANT COATING ON THE METAL PLATE SHALL BE AS APPROVED BY THE ENGINEER.
- ADHESIVE ANCHOR SYSTEM SHALL BE HIT HY 150 H.I.S. INTERNALLY THREADED INSERTS, AS FURNISHED BY HILTI, INC. TULSA, OK. OR EQUIVALENT.
- SIDEWALK BRIDGE, INCLUDING ALL LABOR AND MATERIAL COMPLETE AND IN PLACE, SHALL BE PAID FOR BY THE LINEAR FOOT.
- * NON-SHRINKING GROUT OR APPROVED EPOXY SHALL BE USED WITH DOWEL BARS. ON LIEU OF DRILLING AND GROUTING, DOWELS "D" MAY BE PLACED WITH ARMOR CURB SLOT FOUNDATION.

SHEET 2 OF 2

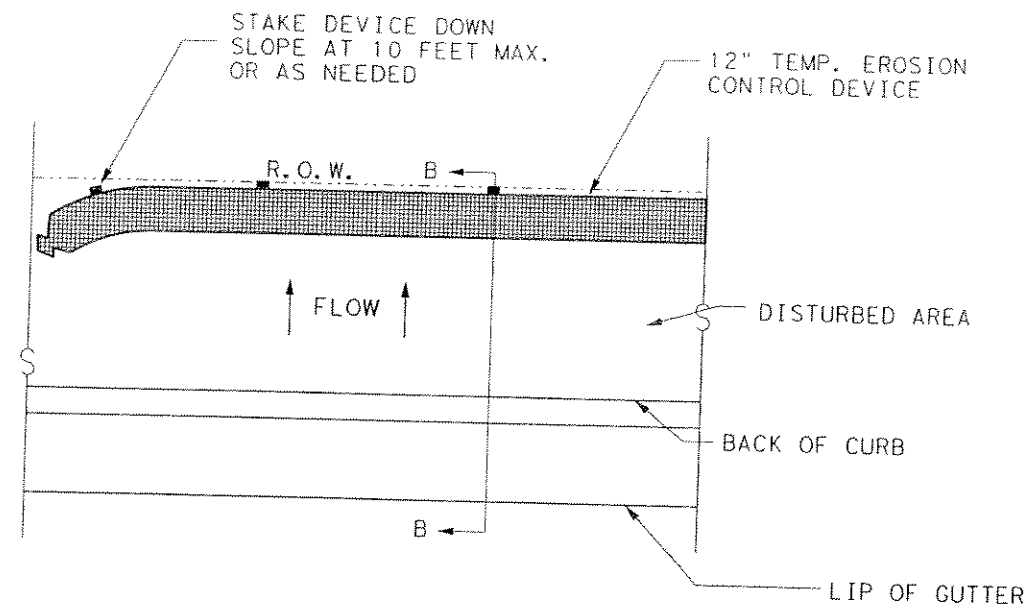
<h2>SIDEWALK BRIDGE</h2> <h3>AT ARMOR CURB SLOT</h3>			
ORIGINAL DRAWING DATE: MAY 2004		PREPARED BY AND FOR USE OF TxDOT:	
REVISIONS:		FEDERAL AID PROJECT:	
COUNTY:		SHEET: 254	



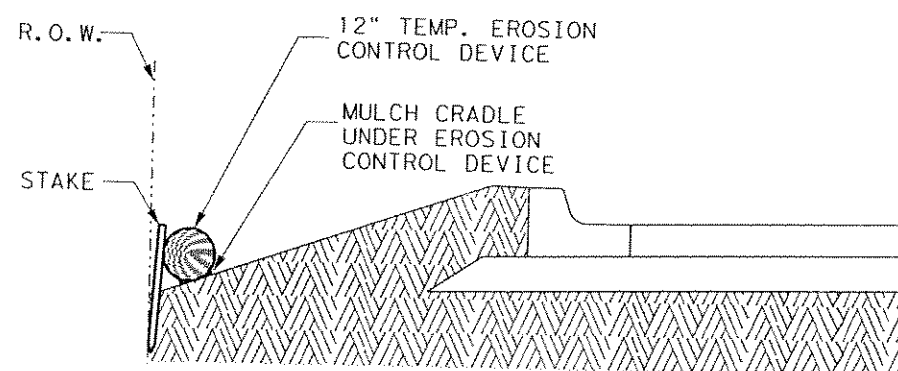
Joe Frank Potter, P.E.
02/03/08



PLAN VIEW



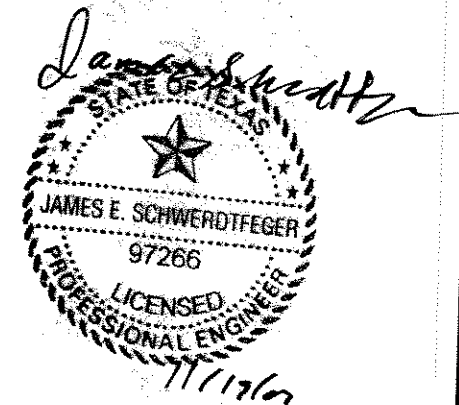
PLAN VIEW




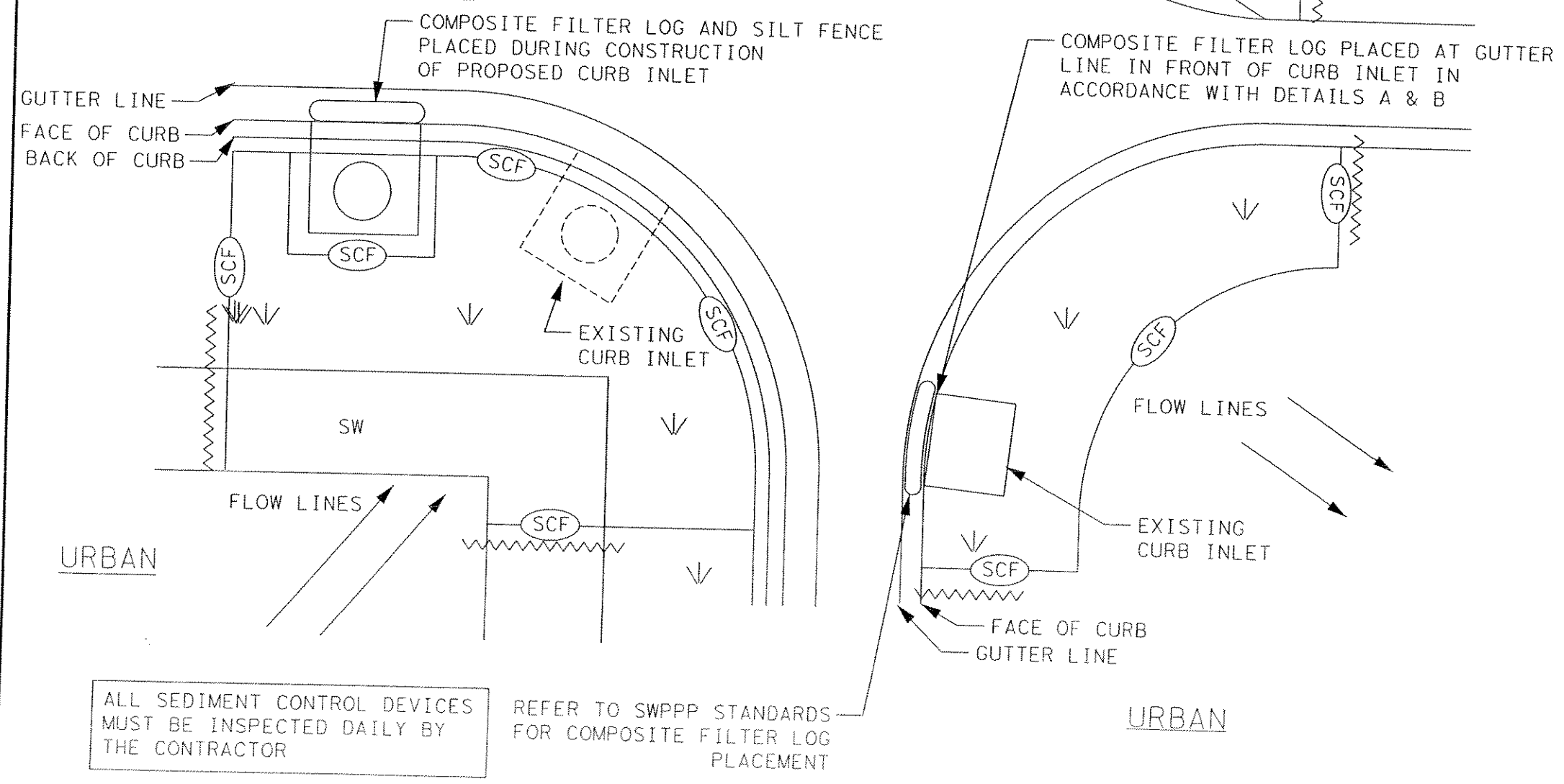
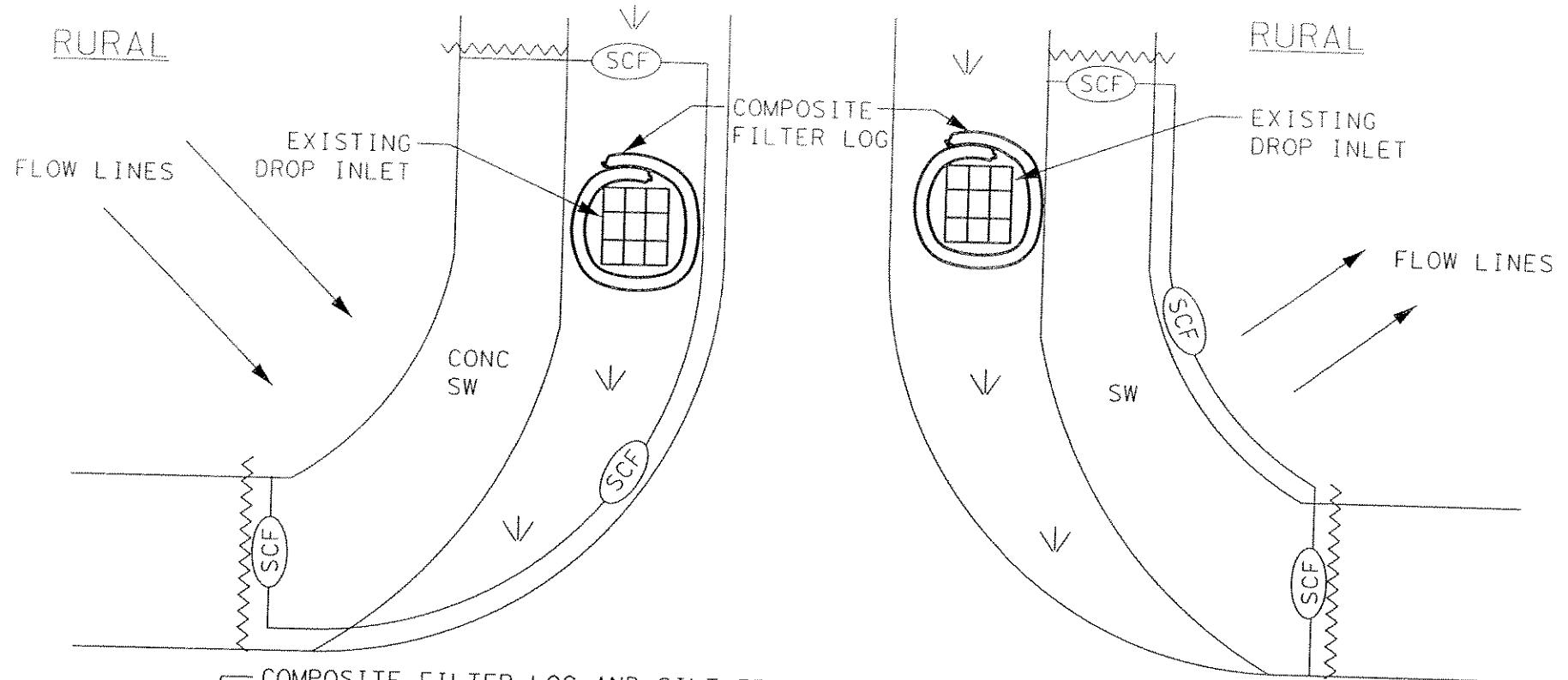
SECTION B-B

TEMPORARY EROSION CONTROL DEVICE
PLACED AT EDGE OF RIGHT-OF-WAY

NTS

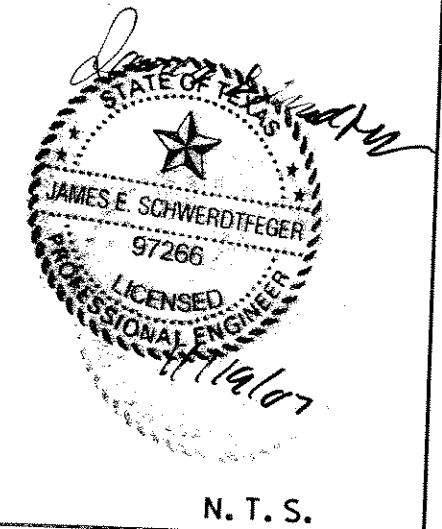


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ADA CURB RAMP PROGRAM TEMPORARY EROSION CONTROL DEVICES					
SHEET 2 OF 2					
DES: AJS CK: DR: SAS DW: JEM CK: DW: MS/SD TEL: CK: TR:	TEL: NO. DIV. NO. STATE: TEXAS COUNTY: BRY PROJECT NO.: 0917 SECTION NO.: 27 JOB NO.: 035, ETC.	STATE PROJECT NO.: VARIES	HIGHWAY NO.: VARIES	SHEET NO.: 257	JOB NO.: 035, ETC.



ALL SEDIMENT CONTROL DEVICES MUST BE INSPECTED DAILY BY THE CONTRACTOR

REFER TO SWPPP STANDARDS FOR COMPOSITE FILTER LOG PLACEMENT



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H.R. Gray For Construction Success		klotz associates	
ADA CURB RAMP PROGRAM SWPPP EXAMPLE INTERSECTION			
DW: JJS CK DW: SAS DW: CMC CE DW: MS/SC TR: CK TR:	FED. NO. DIST. NO. STATE DIST. NO.	STATE PROJECT NO. COUNTY CONTROL NO. SECTION NO.	HIGHWAY NO. JOB NO. SHEET NO.
BRY WALKER, ETC. 0917 27 1035, ETC. 1258			

11/20/2007
W: \\0639.006.004\07.00 CAD\DRAWINGS\Standards\SWPPP\0639.001 SW3P Example.dgn

During the design phase of project development the following environmental permits, issues and commitments have been developed during coordination with resource agencies, local governmental entities and the general public. Any change orders and/or deviations to the final design must be reported to the Engineer prior to commencement of construction activities, as additional environmental clearances may be required.

I. Clean Water Act, Section 402 National Pollutant Discharge Elimination System
(Addresses MS4 requirements)

☐ No Action Required ☒ Required Action

Action No. Waters of the US/Station #
R/L of Centerline Commitment

1. Prevent/minimize erosion and sedimentation from stormwater runoff over disturbed soil
2. Comply with, maintain and update SW3P.

II. Clean Water Act, Section 401 and 404 Compliance

Filling, dredging or excavating in any water bodies, rivers, creeks, streams, wetlands or wet areas is prohibited unless specified in the USACE permit and approved by the Engineer.

☒ No Permit Required ☐ 404 Permit and 401 Certification Required

The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

Permit Required Action Waters of the US Applicable Plan Sheet Title

III. Cultural Resources

☐ No Action Required ☒ Required Action

Action No. Commitment

HISTORIC BUILDING PROTECTION NOTE

PROTECTION NOTES FOR THE REMOVAL OF EXISTING PAVEMENT, CURB OR SIDEWALK AND CONSTRUCTION OF NEW PAVEMENT, CURB OR SIDEWALK ADJACENT TO HISTORIC BUILDINGS, MATERIALS, FENCES, AND RETAINING WALLS

Where proposed work is in proximity to historic buildings or other structures (walls, retaining walls, fences), and planting beds, and vegetation/groundcover, follow the procedures listed below for demolition and construction at these addresses:

Addresses of buildings/walls needing protection:

Huntsville

- Sam Houston Memorial Park masonry wall, northwest corner of intersection of SH 75 and 19th Street. Wall runs along 19th Street.
- Cumberland Presbyterian Church Official Texas Historical Marker, northwest corner of intersection of Avenue J and US 190

Bryan

- Two-story red brick building, southwest corner of Regent Avenue and FM 158
- Lester Building, southwest corner of intersection of North Washington Street and FM 158

Notes

1. To minimize potential damage to historic structures and materials, contractor to saw cut existing sidewalk 8 to 12 inches away from the historic structure, fence, or retaining wall.
2. Contractor to construct new sidewalk next to the saw cut edge with installation of expansion joint in between. If existing sidewalk is to be removed entirely, the remaining 8 to 12 inches next to the historic structure, material, fence, or retaining wall will be removed by hand. Expansion joint to be placed between historic structure, material, fence, or retaining wall and new sidewalk.
3. Contractor is responsible for preventing damage to historic structure, materials, fences, retaining walls, including garden elements (planting beds, plantings) during the entire construction project, especially during removal of existing pavement, curb, or sidewalk. During the saw cut and hand removal process, contractor will exercise utmost caution and will physically protect historic structure foundation, materials, elevations, entryways with decorative flooring, fences, retaining walls, and landscape elements.
4. Contractor to repair or replace in kind, at his own expense, any historic materials damaged in the course of executing the work. Contractor is responsible for locating replacement source for historic materials damaged in the course of the work. TxDOT-Environmental Affairs Division to be informed of proposed repairs to facilitate consultation with Texas Historical Commission prior to execution of repair work.

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

HISTORIC BRICK STREET PROTECTION NOTE

PROTECTION NOTES FOR THE REMOVAL AND RELAYING OF EXISTING STREET BRICK

Where proposed roadway transition work is in areas of historic brick streets, follow the procedures listed below for removal and relaying of street brick:

1. Remove existing street brick by hand or by other approved method that assures the least amount of damage to the brick.
2. Store reusable brick in a manner and location that will protect the brick from loss or damage while the subgrade is adjusted. Replace any unusable or damaged brick with a unit of matching material, size and color. Any brick that is not reused shall be salvaged and delivered to the City of Huntsville or the City of Bryan for their use after all work is completed.
3. Adjust and compact subgrade as directed to ensure proper final grade will be achieved.
4. Install bedding sand, brick and joint sand in accordance with Item 528, "Colored Textured Concrete and Landscape Pavers." Install street brick in the same pattern as existed before removal.
5. Removal and relaying of street brick will not be paid for directly, but shall be considered subsidiary to the various bid items.

IV. Hazardous Materials or Contamination Issues

☒ No Action Required ☐ Required Action

Action No. Station #
R/L of Centerline Commitment

- 1.
- 2.
- 3.
- 4.
- 5.

If potentially hazardous material and/or contaminated media (i.e. soil, groundwater, surface water, sediment, building materials) are unexpectedly encountered during construction, cease work in the immediate area and contact the Engineer immediately.

V. Federal Listed, and Proposed Threatened and Endangered Species, Critical Habitat, State Listed Species, Candidate Species and Migratory Birds

☒ No Action Required ☐ Required Action

Action No. Station #
R/L of Centerline Commitment

- 1.
- 2.
- 3.
- 4.
- 5.

LISTED SPECIES

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediate area, and contact the Engineer immediately.

MIGRATORY BIRD NESTS: Schedule construction activities as needed to meet the following requirements:

1. Do not remove or destroy any active migratory bird nests (nests containing eggs and/or flightless birds) within the project limits at any time of year. Inactive birds nests may be removed except on/in structures where special requirements apply.
2. At structures, if there are any active nests, they shall not be removed until all nests become inactive. After inactive nests are removed and/or before nest activity begins, deterrent materials may be applied to the structures to prevent future nest building.

VI. Vegetation Resources

☒ No Action Required ☐ Required Action

Action No. Station #
R/L of Centerline Commitment

- 1.
- 2.

VII. Edwards Aquifer

☒ No Action Required ☐ Required Action

Action No. Station #
R/L of Centerline Commitment

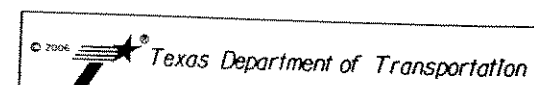
- 1.
- 2.

VIII. Other Environmental Issues

☒ No Action Required ☐ Required Action

Action No. Station #
R/L of Centerline Commitment

- 1.
- 2.



**ENVIRONMENTAL PERMITS,
ISSUES AND COMMITMENTS
(EPIC)**

FED. RD. DIV. NO.	PROJECT NO.		HIGHWAY NO.
6			VA
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	BRY	WALKER, ETC.	
CONTROL	SECTION	JOB	
0917	27	035, ETC.	259